



Snowy Mtns
1967-68

Photography

Dan Ake

Vahan Yazarian

Color Photo Credits

- 3 Ned Gillette - Ellesmere Island Expedition
- 14 Ned Gillette - Ellesmere Island Expedition
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- 55 Dan Ake
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Illustrations Jaime Robles

Cover Art: Bruce Wolfe

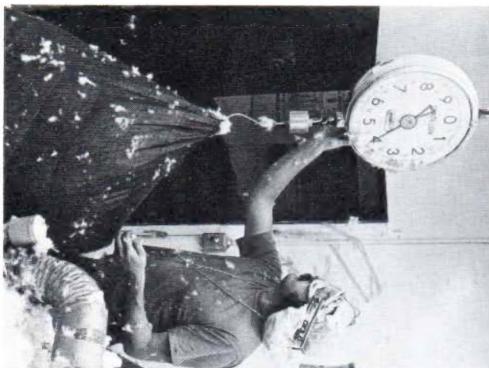
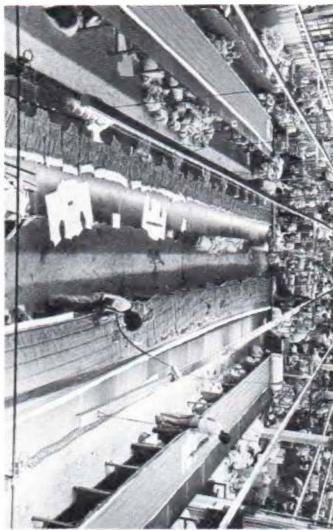
Snow Lion

When we sold our first down bag early in 1973, we were an enthusiastic group of individuals determined to inject a new, high spirited idealism into a complacent and decidedly unimaginative industry. Back then, each competitor's sleeping bag was just about the same as the next, give or take a seam here or there. As a new organization, without ties to existing manufacturers, we were not burdened by preconceived notions about how to sew nylon to nylon. In this frame of mind, we set about applying our innovative ideas to the art of making sleeping bags. We were applauded at once for such novel features as our patented *Two Zipper System* and *Differential Baffle Depth*. On the other hand, our over-eagerness to rewrite the book of designing principles led to a few blunders. For example, we constructed a seam with 18 stitches per inch; this supposedly indestructible seam was actually overperforated and split apart at the slightest tug. Nevertheless, we corrected and learned from mistakes like that one. We listened to our critics and relied heavily on suggestions and advice from our nationwide network of backpacking/mountaineering shops. We enlisted some of the world's foremost climbers and expedition figures to help us in the development of a rigorous product testing program. We refined and perfected existing models. We continued to act on bold, new concepts. As we grew, we added sophisticated lines of garments and tents. We introduced new fabrics to the mountaineering field.

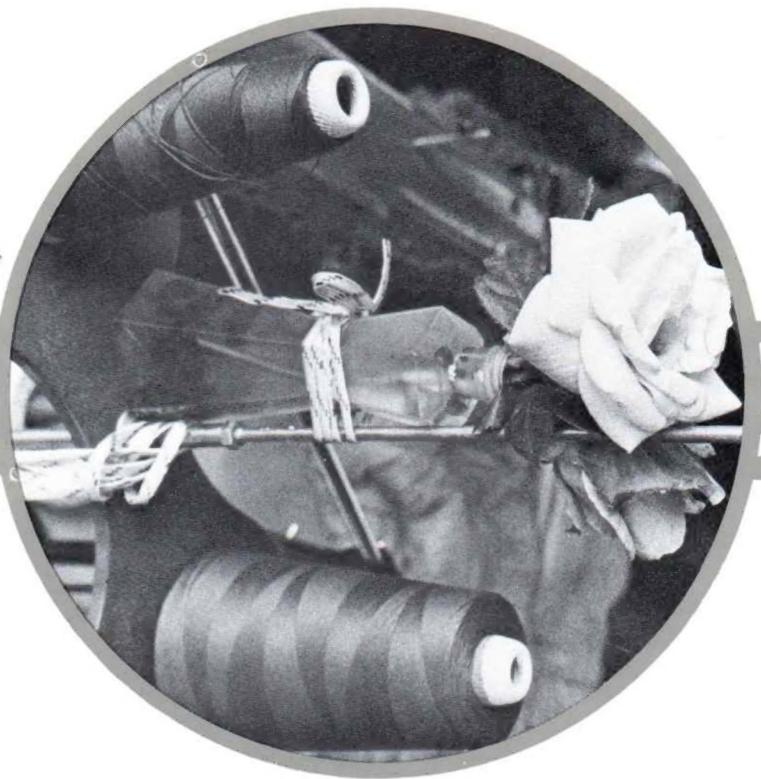
In the midst of all this, we began the *Polarguard*[®] revolution. Nearly five years have passed since that first bag left our old building. In that time, our company has become the most successful in the backpacking/mountaineering industry. Demand for Snow Lion products has grown faster than our ability to supply it. Numerous American, European and Asian expedition teams now consider Snow Lion gear "essential stuff" when planning ventures into the most remote and inaccessible regions of the globe. Over fifty major expeditions have purchased Snow Lion equipment during the last three years alone. Further, in nearly every published evaluation of mountaineering products, Snow Lion has received the highest ratings. Finally, the most satisfying testimonials have come from the countless backpackers, climbers, and outdoor enthusiasts who have enjoyed using our products and have taken the time to express their appreciation to us. Sure, we are pleased, but not so pleased that we have lost sight of that "high spirited idealism" which inspired the founding of Snow Lion in the first place. Rest assured that, we, the people of Snow Lion, will continue to expend all our creative energy in the search for new visions in the design and production of the world's most advanced backpacking/mountaineering equipment.



Most of our employees are conscientious workers, but there's always someone who can't resist playing in the Polarguard.



We've been asked why we built a special isolated mezzanine for our downfillers. Paul's choice of headwear should give you some idea.



Anita, one of our skilled sewing machine operators, demonstrates a bar lacking technique used in our products.





POLARGUARD®
SLEEPING BAGS

Mountain Light

Snow Fox



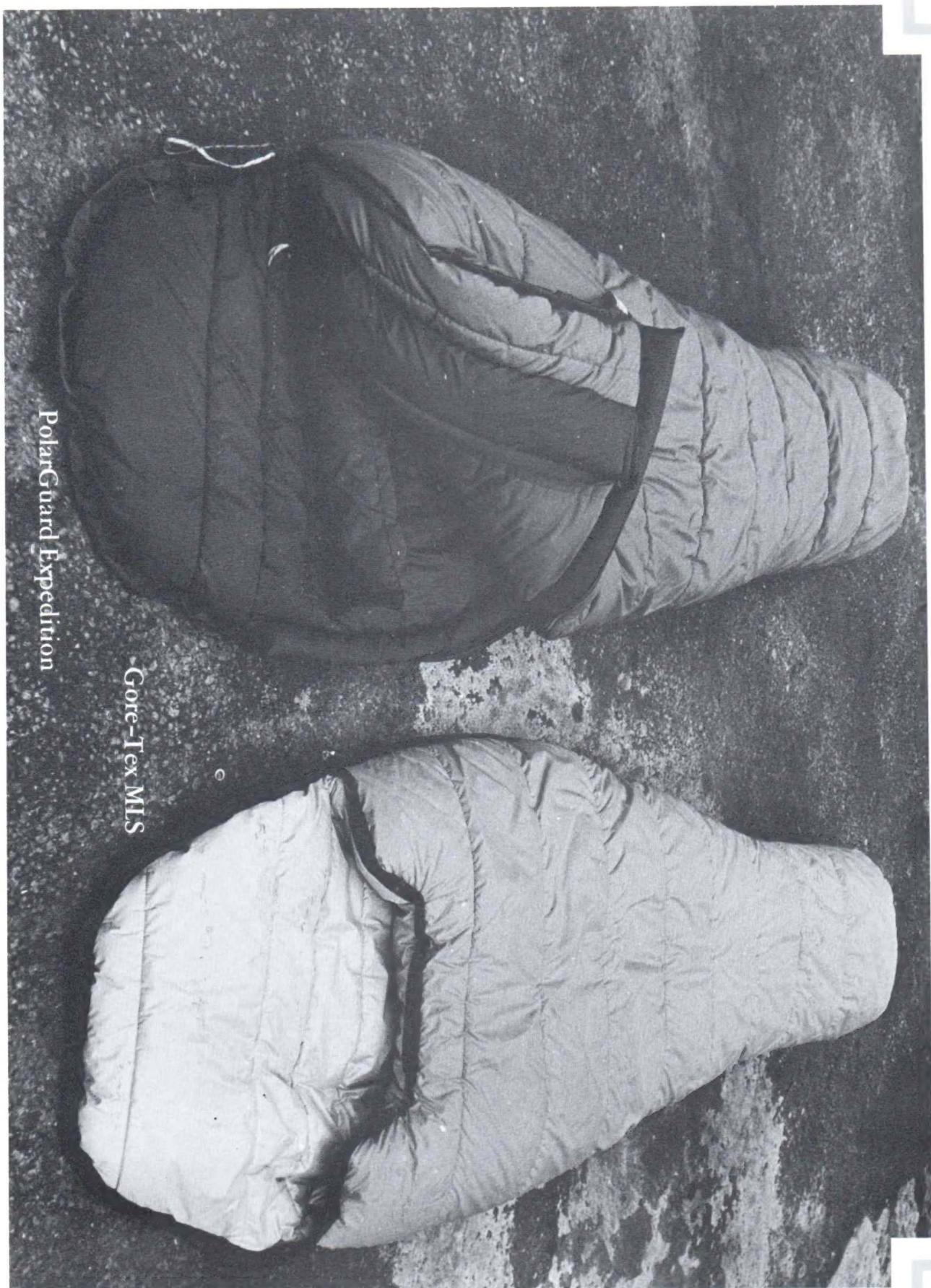
Mountain Lion Super

Snow Lion Super

New Overbag

Semi





PolarGuard Expedition

Gore-Tex MLS

POLARGUARD® SLEEPING BAGS

As the pioneering force behind the development and application of Polarguard for the backpacking/mountaineering community, we have significantly altered modern day thinking about lightweight insulating systems for wilderness travel. With the help of thousands of climbers and hikers, we have proven beyond argument that Polarguard products are tough, resilient and long-lasting. We have received countless testimonials from alpinists and backpackers everywhere. During 1975-1977, for instance, over fifty major American, British, German, Canadian, and Japanese high altitude expeditions have decided to purchase Snow Lion Polarguard filled products. While this doesn't make Polarguard the "wondercure" for every possible cold, wet, windy or icy situation, it clearly demonstrates the overwhelming acceptance of Polarguard by the people whose lives depend on the equipment they use.

It is common knowledge that down has a superior warmth-to-weight ratio, is more compressible and has been around a lot longer than Polarguard. So, why the incredible rush for Polarguard?

TOUGHNESS. If the protective fabric to a Polarguard product tears or punctures, repair may be postponed until convenient without fear of leakage or lost insulation. Also, a Polarguard product may be roughly handled without damaging the interior construction.

READY TO USE. A Polarguard product need not be fluffed or "prepared" before use to attain loft.

"CLOTHES DRIER." With the assistance of body heat, Polarguard sleeping bags absorb the moisture from wet clothing. This "drying effect" can be of critical importance to persons encountering snowy or wet conditions.

PLEASANT TO THE SENSES. Polarguard polyester fibers are non-allergenic and completely odorless.

REASONABLY PRICED. Polarguard is considerably less expensive than down when applied to products intended for the same use.

ADVANTAGES OF POLARGUARD OVER DOWN

DRIES FASTER. Polarguard dries many times faster than down and maintains much better insulation when wet. After several days of use, compare down and Polarguard bags. The water heavy down bag loses loft while the Polarguard bag maintains its thickness.

UNIFORMITY. Polarguard's layered continuous filament polyester fibers provide a uniform, "never shifting" barrier of insulation which does not break down, even after repeated washings or stuffings.

RESILIENCE. Because Polarguard has a resilient springiness, greater insulation is achieved under the body in a sleeping bag. Hence, a thinner, lighter ground pad, if any, suffices.

WASHABILITY. Polarguard products are easier to take care of than their down counterparts. Frequent washings will not reduce insulation or in any way harm the products, provided that the recommended cleaning instructions are followed. After a few washings, the surface stabilizing resins dissolve and the Polarguard softens and may actually increase in loft.

Fortrel® Polarguard® a trademark of Fiber Industries, Inc., a subsidiary of Celanese Corporation.

Within two years, most of our competitors rushed to join the Polarguard bandwagon, but they quickly dis-covered, as we had, that the tough, continuous filament fibers were extremely difficult to work with. The early break-through decision to use Polarguard gave us a tremendous lead in the handling, cutting and sewing of Polarguard. It was no surprise, then, that Snow Lion Polarguard bags became the finest in the world.

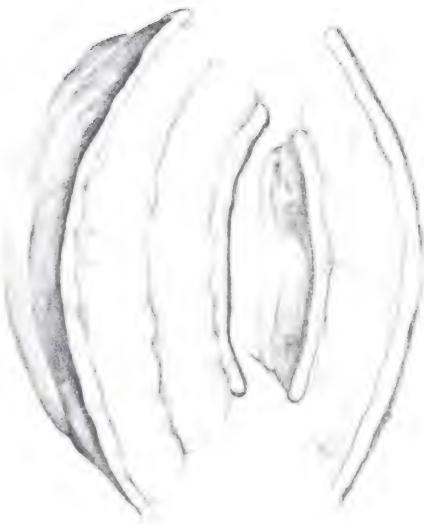
DESIGN AND CONSTRUCTION: THE NEXT GENERATION

Our 1978 Polarguard sleeping bags represent the most innovative conceptual step we have ever taken. We have literally redefined the status of Polarguard for use in sophisticated sleeping bags. While nearly all competitors have been using the standards and terminology of construction which we first developed, our design staff, with the advice and assistance of hundreds of mountaineers, has created a futuristic, new generation of Polarguard bags. So technically advanced is the production methodology that everything that has come before is rendered obsolete.

THE BREAK-THROUGH DECISION TO USE POLARGUARD

When we contemplated the production of synthetic filled products in 1972, our first inclination was toward more widely known polyesters such as DuPont's Dacron Fiberfill II,® now called Hollowfill®. However, when prototypes of bags filled with Fiberfill II or other polyesters developed separations, gaps and clumping after only a few washings and stuffings, we began testing the relatively new Celanese Polarguard. After only a few days the obvious superiority of the more expensive Polarguard became apparent. Unlike the other polyesters, which consist of short 2 inch-4 inch fibers, Polarguard is composed of long continuous filament polyester fibers of great strength and resiliency. Polarguard simply does not separate, mat or clump after numerous washings and stuffings as do the conventional "staple" polyester fiberfills.

With the lab and field tests decisively one-sided, we committed to the unheralded Polarguard. We concentrated on the development of ultra-sophisticated products for distribution solely through our nation-wide dealer network of selected mountaineering/backpacking shops. So tremendous was the consumer response that our production lagged three to four months behind the demand during most of 1974 and 1975.



SEMI

Short for semi-rectangle, the barrel-shaped **SEMI** is our answer to those determined individuals who will settle for nothing less than a roomy, hoodless, zip-around-the-foot bag which opens for use as a comforter, which pairs one on top of another, and which is light enough for backpacking. To keep the average sleeper warm at freezing temperatures, the construction is a three layer sandwich on top and bottom. Each quilted section of the **SEMI** is individually cut, Overlock Stitched, and reinforced for durability. Lighter and loftier, the 1978 **SEMI** features a lush interior of blended Trinyl. Built for the backpacker or camper looking for the last word in wide bodied comfort.

Avg. Min. Temp. Conservatively Estimated: 25°F

Available in Spruce Green Outside, Tan Inside, Stuff Sack Included

Fits persons to 6' 2"

Fill: 48 oz.

Total Weight: 4 lbs. 8 oz.

NEW OVERBAG

Our **NEW OVERBAG** is a specialized, single layer envelope with a full length #5 Vislon zipper extending around-the-foot. We suggest four uses: first, put a down or Polarguard mummy bag inside to create a more versatile and protective sleeping system; second, zip it together with a **SEMI** and put the thicker bag on top in cold weather and the thinner on top when it's warmer; third, take it summer camping or canoeing in mild weather; fourth, open it up and throw it on your bed or into your camper.

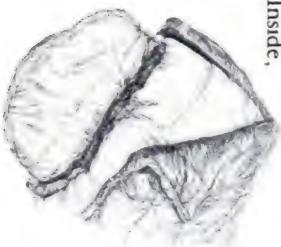
Avg. Min. Temp. Conservatively Estimated: 50°F

Royal Blue Outside, Tan Inside, Stuff Sack Included

Fits persons to 6' 2"

Fill: 16 oz.

Total Weight: 2 lbs. 7 oz.



FOOTSACK

Our Polarguard **FOOTSACK** has virtually replaced down-filled versions among serious climbers across the country. The **FOOTSACK** provides crucial protection from the rain and snow which constantly plague vertical bivouacs and gives excellent insulation underneath. The 1978 **FOOTSACK** now features a contoured pattern with a huge footsection. Loops of nylon webbing extend from the head and foot to allow for storing or drying garments or lightweight climbing paraphernalia. Although designed for climbers, children up to 4' 8" often find this bag appealing.

Avg. Min. Temp. Conservatively Estimated: 20°F Navy Blue Outside, Tan Inside, Stuff Sack Included

Fill: 20 oz.

Total Weight: 2 lbs. 2 oz.

GORE-TEX® MLS

Perhaps the safest sleeping bag in the world: this bag is a **MOUNTAIN LION SUPER** with a waterproof, but breathable, Gore-Tex/Nylsilk outer shell, top and bottom. It has been created for the alpine mountaineer who must spend days in wet, drippy snow caves or tents.

To protect against wetness, winter campers and trekking skiers may select this special sleeping bag. While any of our thicker Polarguard bags would maintain adequate insulation under wet, drippy conditions, the outer fabrics could become annoyingly wet and messy. Also, while Polarguard does not significantly lose loft when wet, it does hold moisture if it comes in prolonged contact with a high concentration of water. Although, such circumstances rarely occur in the field, the Gore-Tex laminate virtually eliminates the threat of it ever taking place. All other features are identical to the **MOUNTAIN LION SUPER**.

Avg. Min. Temp. Conservatively Estimated: - 10°F

Royal Blue Outside, Tan Inside, Stuff Sack Included

Fits persons to 6' 0"

Fill: 54 oz.

Total Weight: 4 lbs. 15 oz.

POLARGUARD EXPEDITION BAG

Our new Variable Layering System has actually allowed us to increase the loft slightly and shave 6 oz. off the total weight of the 1978 **EXPEDITION**. The regular size weighs only .6 lbs. 1 oz. This is almost unbelievable for a Polarguard bag with 8.9" of loft and a sewn-in, Polarguard-filled collar. The super thick **EXPEDITION** has been built for one purpose: to afford maximum protection in the cold-wet conditions associated with constant exposure to snow and ice. The **EXPEDITION** is cut wider than the **MOUNTAIN LION SUPER** and has an extra roomy footsection. The extra thick collar is permanently sewn above the shoulders to trap heat inside and prevent cold draft. All our 1978 technical improvements are standard equipment on this bag. Fabric is 50 denier Nylsilk throughout. Finally, a specially designed, heavy-duty compressor sack is supplied with each **EXPEDITION**.

Avg. Min. Temp. Conservatively Estimated: - 20°F Royal Blue Outside, Gold Inside

EXPEDITION REGULAR **EXPEDITION LONG**
Fits persons to 6' 0" Fits persons to 6' 5"
Fill: 72 oz. Fill: 79 oz.
Total Weight: 6 lbs. 1 oz. Total Weight: 6 lbs. 10 oz.

SOLO ELITE

The ultimate, lightweight climbing sack, the **SOLO ELITE** is the most thermally efficient Polarguard bag in relation to total weight that we have ever made. It is cut in a form-fitting mummy shape to minimize both weight and interior air space. Ultra lightweight, 50 denier Nylsilk is used exclusively. Another warmth-to-weight plus is a unique Nylsilk *wind collar* created especially for this bag, which blocks off air flow in or out of the bag when drawn snugly. Like the **FOOTSACK**, the **SOLO ELITE** is equipped with nylon webbing loops at head and foot. Finally, innovations such as our *Variable Layering System*, *Shoulder Scoop*, and oversized draft flap are standard.

Avg. Min. Temp. Conservatively Estimated: 20°F Gold throughout Stuff Sack Included
Fits persons to 6' 0" Fits persons to 6' 5"
Fill: 28 oz. Fill: 32 oz.
Total Weight: 3 lbs. 2 oz. Total Weight: 3 lbs. 7 oz.

SOLO ELITE REGULAR SOLO ELITE LONG

Fits persons to 6' 0" Fits persons to 6' 5"
Fill: 61 oz. Total Weight: 5 lbs. 7 oz.
Total Weight: 5 lbs. 7 oz. Total Weight: 3 lbs. 7 oz.

SLEEPING BAG COMPARISON CHART

Sleeping Bag Comparison Chart									
Model		Weight		Dimensions		Insulation		Performance	
Category	Model	Down	Plush	Width	Length	Fill Power	Fill Weight	Width	Length
FOOT SACK									
NEW OVERBAG	20P	2 lbs.	2 oz.	Mummy	None	4' 8"	54" 42"	3/2	8"
	16P	2 lbs.	7 oz.	Semi Rect.	95"	Vision 6' 2"	63" 70"	1/1	8"
SNOW FOX SMALL	30P	3 lbs.	3 oz.	Mod. Mum	65"	Ziplon 5' 7"	60" 58"	3/2	8"
SNOW FOX REGULAR	34P	3 lbs.	8 oz.	Mod. Mum.	70"	Ziplon 6' 0"	62" 60"	3/2	8"
SNOW FOX LONG	38P	3 lbs.	13 oz.	Mod. Mum.	70"	Ziplon 6' 5"	62" 60"	3/2	8"
SOLO ELITE REGULAR	28P	3 lbs.	2 oz.	Nar. Mum.	70"	Ziplon 6' 0"	52" 50"	3/2	8"
SOLO ELITE LONG	32P	3 lbs.	7 oz.	Nar. Mum.	70"	Ziplon 6' 5"	52" 50"	3/2	8"
SEMI	48P	4 lbs.	8 oz.	Semi Rect.	95"	Vision 6' 2"	63" 70"	3/2	8"
MOUNTAIN LIGHT SMALL	42P	3 lbs.	15 oz.	Mummy	65"	Ziplon 5' 7"	58" 54"	3/3	8"
MOUNTAIN LIGHT REGULAR	48P	4 lbs.	6 oz.	Mummy	70"	Ziplon 6' 0"	60" 56"	3/3	8"
MOUNTAIN LIGHT LONG	54P	4 lbs.	13 oz.	Mummy	70"	Ziplon 6' 5"	60" 56"	3/3	8"
SNOW LION SUPER	62P	5 lbs.	4 oz.	Mod. Mum.	70"	Ziplon 6' 3"	65" 66"	4/3	8"
MOUNTAIN LION SUPER SMALL	47P	4 lbs.	4 oz.	Mummy	65"	Ziplon 5' 7	58" 54"	4/3	8"
MOUNTAIN LION SUPER REGULAR	54P	4 lbs.	12 oz.	Mummy	70"	Ziplon 6' 0"	60" 56"	4/3	8"
MOUNTAIN LION SUPER LONG	61P	5 lbs.	4 oz.	Mummy	70"	Ziplon 6' 5"	60" 56"	4/3	8"
GORE-TEX® MLS REGULAR	54P	4 lbs.	15 oz.	Mummy	70"	Ziplon 6' 0"	60" 56"	4/3	8"
GORE-TEX® MLS LONG	61P	5 lbs.	7 oz.	Mummy	70"	Ziplon 6' 5"	60" 56"	4/3	8"
POLARGUARD EXPEDITION REGULAR	72P	6 lbs.	1 oz.	Mod. Mum.	70"	Ziplon 6' 0"	64" 60"	4/3	8"
POLARGUARD EXPEDITION LONG	79P	6 lbs.	10 oz.	Mod. Mum.	70"	Ziplon 6' 5"	64" 60"	4/3	8"
SOUTHERN COMFORT REGULAR	24D	3 lbs.	4 oz.	Semi Rect.	95"	Vision 5' 10"	63" 64"	Slant	5"
SOUTHERN COMFORT LONG	26D	3 lbs.	4 oz.	Semi Rect.	100"	Vision 6' 3"	63" 64"	Slant	5"
LIMITED EDITION LIGHT SMALL	18D	2 lbs.	5 oz.	Mummy	65"	Vision 5' 7"	57" 52"	Slant	5"
LIMITED EDITION LIGHT REGULAR	20D	2 lbs.	9 oz.	Mummy	70"	Vision 6' 0"	58" 53"	Slant	5"
LIMITED EDITION LIGHT LONG	22D	2 lbs.	13 oz.	Mummy	70"	Vision 6' 5"	58" 53"	Slant	5"
ULTRALIGHT SMALL	28D	3 lbs.	Mummy	2x65"	Vision 5' 7"	59" 54"	Slant	5"	ripstop
ULTRALIGHT REGULAR	32D	3 lbs.	5 oz.	Mummy	2x70"	Vision 6' 0"	60" 56"	Slant	5"
ULTRALIGHT LONG	35D	3 lbs.	10 oz.	Mummy	2x70"	Vision 6' 5"	60" 56"	Slant	5"
NORTHSTAR REGULAR	40D	4 lbs.	2 oz.	Mod. Mum.	2x70"	Vision 6' 2"	64" 60"	Slant	5"
NORTHSTAR LONG	44D	4 lbs.	8 oz.	Mod. Mum.	2x70"	Vision 6' 7"	64" 60"	Slant	5"
LIMITED EDITION STANDARD REGULAR	32D	3 lbs.	12 oz.	Mod. Mum.	2x70"	Vision 6' 2"	64" 60"	Slant	5"
LIMITED EDITION STANDARD LONG	34D	4 lbs.	Mod. Mum.	2x70"	Vision 6' 7"	64" 60"	Slant	5"	ripstop
LIMITED EDITION EXPEDITION REGULAR	44D	4 lbs.	12 oz.	Mod. Mum.	2x70"	Vision 6' 2"	64" 60"	Slant	5"
LIMITED EDITION EXPEDITION LONG	47D	5 lbs.	2 oz.	Mod. Mum.	2x70"	Vision 6' 7"	64" 60"	Slant	5"

¹P = PolarGuard, D = Down.

²Due to minor variations in the resin content, and the thickness and density of PolarGuard, the total weights indicated may vary by plus or minus 5%.

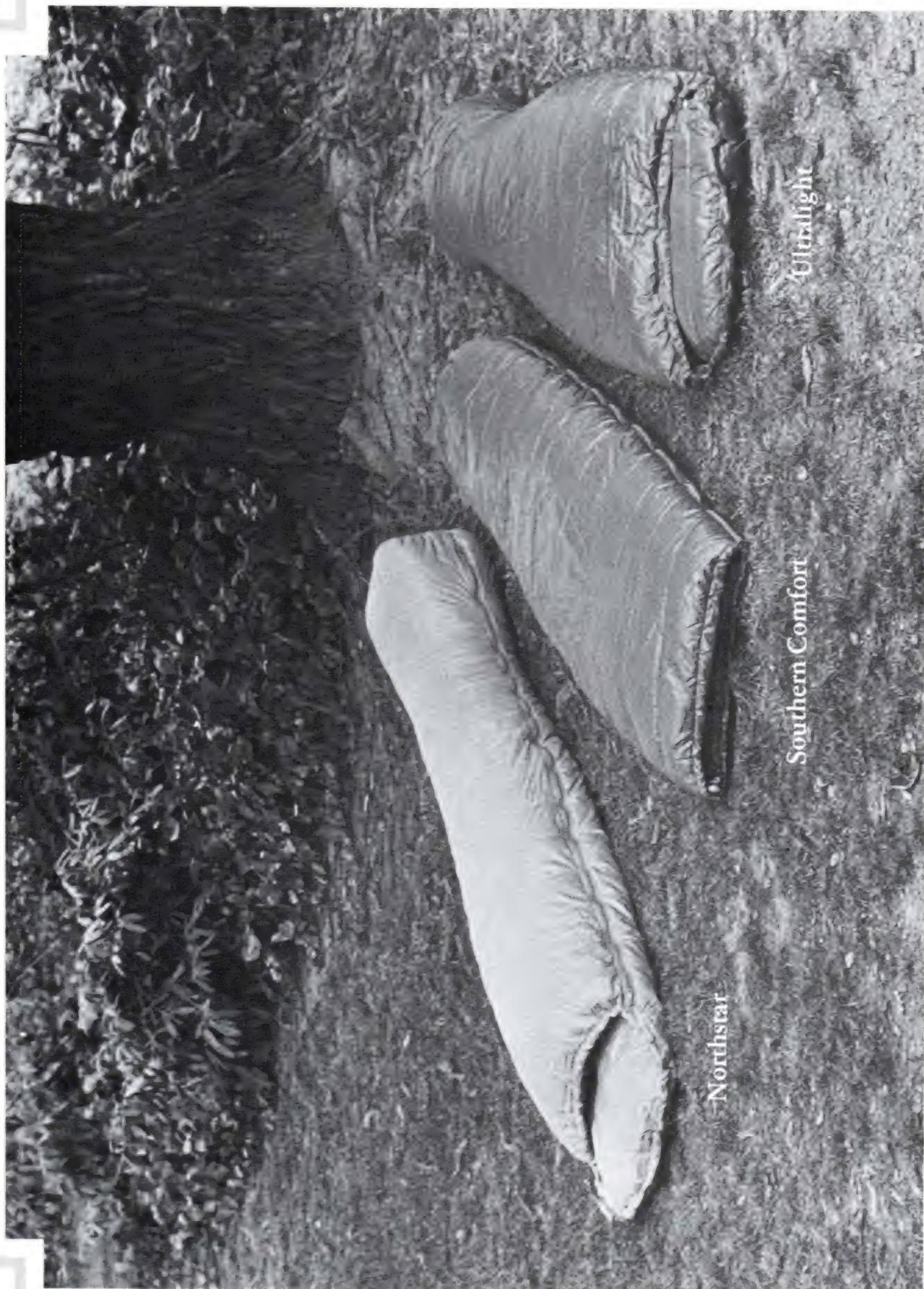
³Semi Rect. = Semi-rectangular; Mod. Mum. = Modified Mummy; Nar. Mum. = Narrow Mummy.

⁴PolarGuard construction: 1/1 = single layer top and bottom; 3/2 = three layer top, double bottom; 3/3 = three layer top and bottom; 4/3 = four layer top, three layer bottom. Note: variable thickness of PolarGuard layers account for loft differences. Down construction: "slant wall" baffling.

⁵It must be stressed that the temperatures quoted are conservative estimates and are subject to the following comfort variables: body metabolism and physical condition, the degree of convection effected by wind, the use of ground pads for added insulation, the effect of heat radiation, and the amount of clothing in use while sleeping.



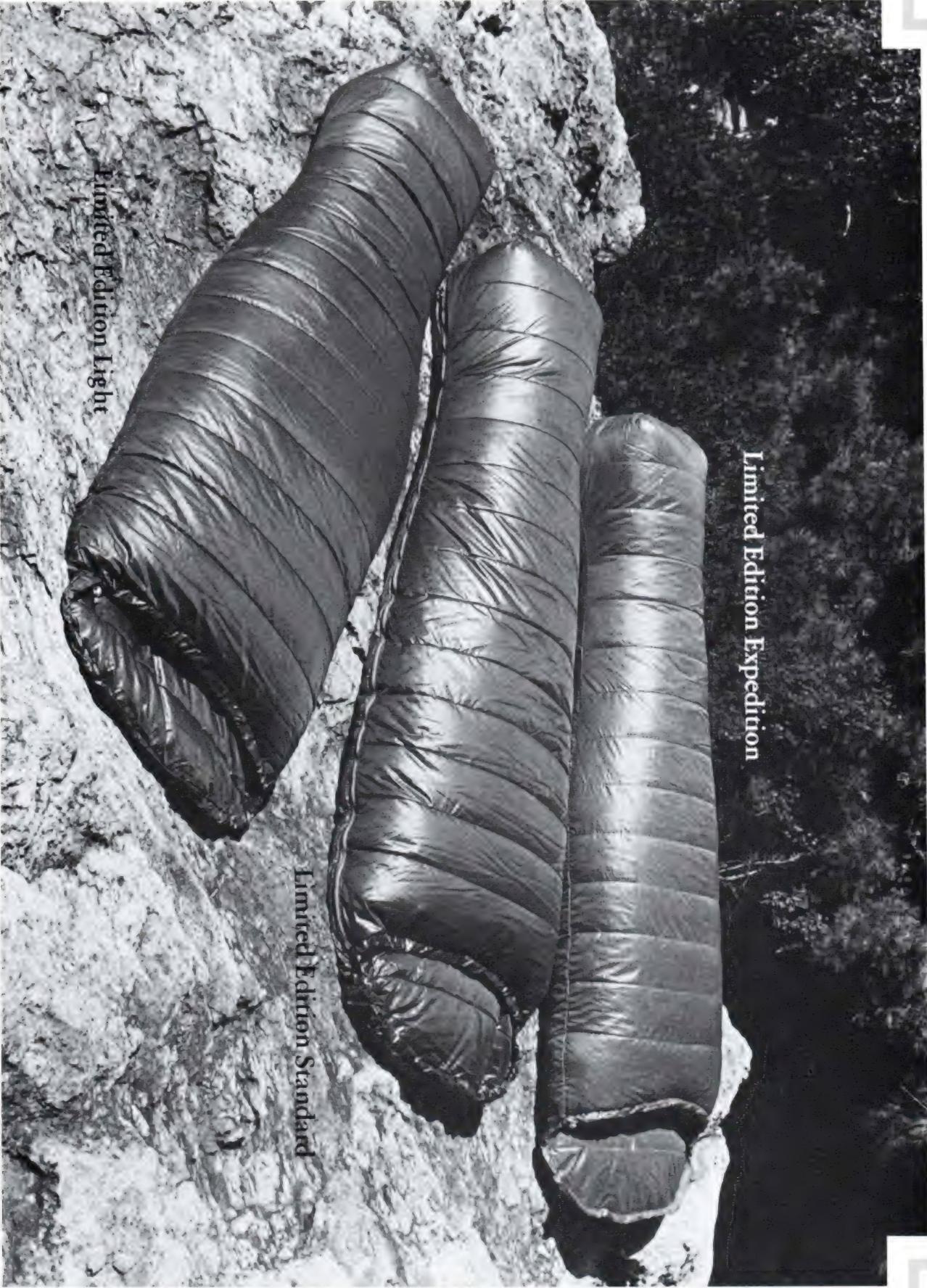
DOWN
SLEEPING BAGS



Northstar

Southern Comfort

Ultra-light



Limited Edition Expedition

Limited Edition Standard

Limited Edition Light

WHAT IS DOWN?

Plumage shall mean the outer covering of fowl. *Plumules* shall mean water fowl plumage with underdeveloped soft and flaccid quill with barbs indistinguishable from those of down. *Residue* shall mean quill pith, quill fragments, trash or foreign matter. *Waterfowl* shall mean plumage derived from ducks and geese."

COMPOSITION REQUIREMENTS—According to California regulations, "Any industry product labeled as *down*, *duck down*, or *goose down* shall conform to the following composition requirements:

Down and plumules	75% minimum
Extraneous (total of components below)	25% maximum
Waterfowl feathers	25% maximum
Down fiber	15% maximum
Feather fiber	5% maximum
Landfowl feather and fiber	2% maximum
Residue	2% maximum"

EQUALITY OF DUCK AND GOOSE DOWN—It is not the type of waterfowl, be it duck or goose, that determines the quality of the down; it is the maturity and filling powers of the stock. Although widely known among down processors, regulatory agents and manufacturers, this has only recently become widespread public knowledge. For example, eiderdown has long been considered the world's finest down. Its origin is the eider duck.

It is our intention to acquaint you with the *realities* of down as it is used in the mountaineering industry in the United States by clarifying the most misunderstood facts. Why believe us? As a relatively young company, we aren't faced with the problem of defending long-standing industry-wide myths and outdated beliefs about down. We are able to take an objective approach to the selection of down, with quality, not previous sales propaganda, as the primary consideration. It is our freedom to do this that underscores the credibility of the following statements.

PLUMAGE DEFINED—California has the most stringent bedding requirements in the country. Under the article outlining *Plumage Regulations*, the *types and kinds* of plumage are defined. The following are the most pertinent definitions.

'*Down*' shall mean the undercoating of waterfowl, consisting of the light fluffy filaments *barbs* growing from one quill point but without any quill shaft. *Down Fiber* shall mean the detached barbs from down and plumules and detached barbs from the basal end of waterfowl quill shaft which are indistinguishable from the barbs of down.

Feathers shall mean the plumage or outgrowth forming the contour and external covering of fowl which are whole in structure and which have not been processed in any manner other than dusting and washing.

Feather Fiber shall mean the detached barbs of feathers which are not joined or attached to each other. *Landfowl* shall mean plumage derived from chickens and turkeys.

COLLECTION AND PROCESSING

—Down used in sleeping bags and parkas is the incidental by-product of ducks and geese raised commercially and harvested for meat. Feathers and down are removed after the bird has been slaughtered and, together with dirt, scippings, epidermal residue and other trash, are collected and baled by brokerage merchants. This mixture, including the raw feathers and down, is then sold to processors who pay by percentage of down per bale; down content may vary from 10% to 25%. Highly specialized equipment is used to separate the down from the extraneous material. Because it is economically impractical to isolate 100% pure down, the result is a mixture of feathers, down, fiber, etc., which must conform to the minimum legal *Composition Requirements* outlined above. From there, the stock is washed and sterilized (some processors wash and sterilize before separation). The finished product is ready for sale to manufacturers.

SNOW LION DOWN STANDARDS—For use in the ULTRALIGHT, SOUTHERN COMFORT, NORTH-STAR and all down garments, our quality standard is 550 cu. in. per ounce, based on the U.S. Bureau of Standards Filling Power Device. For use in the LIMITED EDITION series, the quality standard is 650 cu. in. per ounce. Our products are filled with goose down, duck down, and, occasionally a blend of the two. We invite comparison.

LIMITED EDITION SERIES

When we introduced the LIMITED EDITION STANDARD in 1975, the concept of the "supreme bag" was heralded by perfectionist climbers and discriminating equipment fanatics around the world. By combining the supreme shell with the supreme down, we had redefined the so-called *state of the art* in sleeping bag design. This achievement was made possible by our acquisition of an extremely select and expensive stock of high quality down available in limited quantities with a filling capacity of approximately 650 cubic inches per ounce. Inspired by the LIMITED STANDARD's resounding success, we designed and introduced the LIMITED EDITION LIGHT and the LIMITED EDITION EXPEDITION. Add the incomparable quality of design and construction to the LIMITED down, and feature for feature, stitch for stitch, Snow Lion LIMITED EDITIONS are the most outstanding down-filled sleeping bags in the world.

PLACE OF ORIGIN—The vast majority of raw feathers and down used in sleeping bags and garments originates in Asia and Europe. However, attempts by manufacturers to pinpoint the true origin of processed down beyond the U.S. processor from whom the finished product was purchased is as difficult to prove as it is meaningless. For example, a large percentage of down brokered through West Germany is of Asian origin. Is this down European?

CLASSIFICATION—Down categories such as AA, AAA, Prime, Northern, European, and Garment Grade are promotional trade names and are not recognized by state and federal agencies governing the legal classification, registration and certification of down in sleeping bags.

BAFFLE AND CONSTRUCTION SYSTEMS



The intricate, unseen network of interior walls, cut in precise patterns, angling off in specific directions to join other walls at pre-defined points, comprises the most vital component of a quality down sleeping bag.

The combination of our innovative design process and our advanced manufacturing techniques, which allows us to spend nearly twice as much time in bag construction as other manufacturers, has made the *Snow Lion Buffing System* the most complex and effective ever designed and put into regular production.



THE TWO ZIPPER SYSTEM

When mummy bags were first made and used by European mountaineers, the idea was to build a form-fitting, thermally efficient product with insulation evenly distributed around the body for use in very cold conditions. The thought of sewing in a zipper was out of the question. Not only would a zipper weaken the insulation barrier by creating a cold spot, but it would also complicate the bag and endanger performance through possible failure to operate. Therefore, the first mummies were not encumbered by such frivolities as zippers. The hardy mountaineer simply slithered into the bag and was assured of reasonably uniform insulation. However, as more and more people with a wider range of uses for sleeping bags entered the backpacking/mountaineering scene, the versatility of zippers for ventilation, for easier access, and for joining single bags together made the zipperless bag obsolete. With zippers as standard features, the great problem then became the design of an effective method of protecting the zipper from the ever-present discomfort of draft. The various down-filled draft flaps, tubes, and bag extensions currently used by all manufacturers of down bags simply do not prevent heat loss or cold air entry through the zipper.

DRAFT PROTECTION —

The only method in existence that solves this problem and completely eliminates draft is the Snow Lion patented *Two Zipper System* — an inner zipper located behind the outer zipper which locks a down-filled section between the outer zipper and the person inside. Developed in 1972 for use on our **EXPEDITION** bag, the performance data was so dramatic and the response was so overwhelming that we began offering it on the **ULTRALIGHT** and **NORTHSTAR** in late 1973, and the **LIMITED STANDARD** in 1975.

ZIP TOGETHER PROTECTION — Under the older, conventional draft flap arrangement, a direct cold spot occurs from above and between the bags when two bags are paired side by side. The Snow Lion *Two Zipper System* eliminates this problem for the first time ever by the pairing of the inner zippers of both bags, in which the down-filled section is sealed over the outer zipper.

INCREASED THERMAL EFFICIENCY — The inner zipper is usually left open under moderate conditions. However, when the inner zipper is used, it increases the differential cut by 5" and substantially decreases the amount of interior air space to be heated. Obviously this makes the bag considerably warmer.

BACK UP FOR EMERGENCIES — Although our durable #5 Vision® zippers rarely fail, statistics and lifetime guarantees don't mean much when breakage occurs in a survival situation. Our inner zipper may serve as a back up when your life depends on it.

MULTI-DIRECTIONAL FABRIC

Our specially selected buffing is a *multi-directional*, high strength, polyester knit with multi-stretch properties which accept and release stress and return to the original dimensions without distortion over time. This resilience makes it ideal for use in sleeping bags subject to long, hard use and repeated washings.

DIFFERENTIAL BAFFLE DEPTH (DBD)

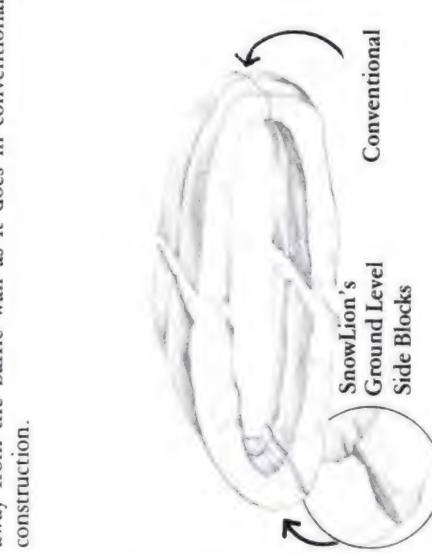
Unlike most manufacturers who put 50% of the down fill in the top baffles and 50% in the bottom baffles, Snow Lion has developed a completely unique and far more effective system—*Differential Baffle Depth*. DBD is the logical and deliberate concentration of down insulation and baffle volume over the body where it is needed most. Because down compresses under body weight, it becomes almost non-functional in the bottom compartments. Approximately 60% of the loft and insulation in **ULTRALIGHTS**, **NORTHSTARS**, and **LIMITED EDITIONS** is on top. To demonstrate the obvious advantage of DBD over the conventional 50/50 distribution, zip yourself into a Snow Lion mummy and into another bag with similar overall loft. As the "before and after" figures clearly indicate, the Snow Lion Bag has more insulation left after the down underneath has compressed. Although the construction of "deeper" top baffles and precise "differential" filling of top and bottom compartments requires considerably more labor than conventional construction, the added loft and warmth it creates make the finished product well worth the effort.

BODY CONTOUR BAFFLING

Gravity forces the top of the bag to press lightly against the chest and along the length of the person inside. Normally the result is slightly less insulation along the pressure points over the body. However, we have designed specially contoured baffles in which the deepest and loftiest point is over the body at the pressure points. To achieve this "contour," each horizontal baffle along the length of the bag must be individually shaped, cut, and sewn. Because the girth varies on every bag, a separate set of baffle patterns must be made for each. The greater insulation and warmth provided by our *Body Contour Baffling* are obvious to anyone who has thought of building a down bag. Its production represents the first major breakthrough in the area of baffle design in years.

FOUR SHELL PATTERNS

Due to the *Differential Cut*, quality bags require two shell patterns, one for the inner circumference and one for the outer. Snow Lion bags, however, require four separate patterns for each bag: *Differential Baffle Depth* and *Ground Level Side Block* features, the top and bottom as well as the inner and outer shells are from different patterns. In addition to twice as many patterns, each Snow Lion shell pattern is cut from one linear piece of material. This is considerably stronger than the "pieced" or "joined" patterns used by many manufacturers who cut against the linear grain to save material.



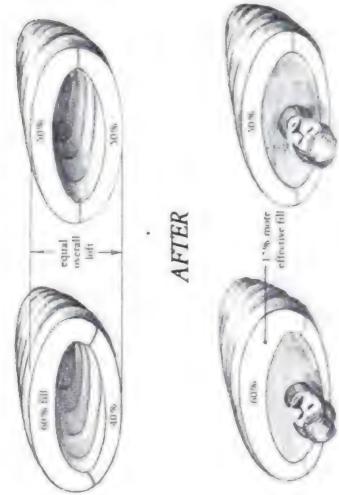
TULIP BULB FOOTSECTIONS

All Snow Lion down mummy bags feature enlarged foot sections to provide more room for wandering feet as well as warm storage compartments for clothing and/or boots in sub-zero temperatures. The inner and outer foot shells are *Differentially Cut*, making it difficult to force the inner shell against the outer. To insure uniform insulation in such a "bulbous" area, a horizontal baffle separates the down-filled top and bottom of the foot section. Though the *Tulip Bulb* creates an unusual appearance, it adds an extra dimension of safety and comfort to cold weather sleeping bags.



GROUND LEVEL SIDE BLOCKS

To increase the total effectiveness of *Differential Baffle Depth*, we have extended the upper portion of the bag so that the zipper and side block baffle are almost at ground level. While other manufacturers locate the side block half-way between top and bottom for reasons of construction and filling expediency, *Ground Level Side Block* cannot form the cold spots caused when the down underneath the side block shifts away from the baffle wall as it does in conventional construction.



SLANT WALL CONSTRUCTION

In *Slant Wall Construction*, used in all Snow Lion down bags, the contoured baffle is slanted exactly one half width of the baffle compartment, resulting in seams offset $2\frac{1}{2}$ inches. This technique allows maximum "free loft" and is particularly effective when arranged in our narrow, 5" baffle compartments.

WORKMANSHIP

The sewing craftsmanship of Snow Lion bags has set unmatched quality standards in the sleeping bag industry over the past few years. Baffle seams are always precisely aligned and sewn at *Twelve Stitches Per Inch* with high strength nylon and polyester/cotton threads. All zippers are neatly double stitched and the polyester fabric stuffer, which reduces zipper snag, is double stitched in all cases. Stress points are reinforced with double stitches, bar tacks, and/or overlock stitches. The baffle seams are *Tuck Stitched*, a method in which the thread is tucked, unexposed beneath all surfaces of the bag. This reduces the snagging common to top-stitched bags and thereby increases the longevity of the product. *Tuck stitching* and the overall superiority of Snow Lion stitching are structural advantages resulting from our "more time spent sewing" manufacturing process.



DIFFERENTIAL CUT

The *Differential Cut* is a construction method in which the inner shell of the sleeping bag is shorter in circumference than the outer shell, thereby preventing the baffled insulation barrier from easily collapsing when pressure is applied from the inside by elbows, knees, etc. The less expensive alternative is "shell parity" construction in which the inner shell is cut from the same pattern as, and is equal in circumference to, the other shell. All Snow Lion down bags are *Differentially Cut*.

ULTRALIGHT

SOUTHERN COMFORT

NORTHSTAR

The unique bottle shaped ULTRALIGHT is our most popular bag. It is designed to combine maximum thermal efficiency with minimal weight. Even though it features every major Snow Lion innovation and has been widened from the chest to the enlarged Tulip Bulb Foot Section, it is still light enough to be called the purist's mummy. It is intended for the backpacker/mountaineer who needs an extremely high performance product, with sufficient warmth and comfort to take to the mountains all year around, but who prefers to carry less than 4 lbs. of sleeping bag. Nothing is spared in the production of the ULTRALIGHT: standard construction includes exclusive Snow Lion features such as the



Two Zipper System, Differential Baffle Depth, Body Contour Baffling, Ground Level Side Block, Four Pattern Shell Construction, and Tuck Stitching at twelve stitches per inch. Over the years, the ULTRALIGHT has more than proven itself to thousands of backpackers across the country. Without question, it has become one of America's most desired sleeping bags.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 25°F

Available in Rust—Stuff Sack Included

SOUTHERN COMFORT REGULAR

For Persons to 5' 10",
24 Ounces Downfill
Total Weight: 3 lbs.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 25°F

Available in Rust—Stuff Sack Included

NORTHSTAR REGULAR

For Persons to 6' 2",
40 Ounces Downfill
Total Weight: 4 lbs. 2 oz.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 25°F

Available in Rust—Stuff Sack Included

SOUTHERN COMFORT LONG

For Persons to 6' 3",
26 Ounces Downfill
Total Weight: 3 lbs. 4 oz.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 25°F

Available in Rust—Stuff Sack Included

NORTHSTAR LONG

For Persons to 6' 7",
44 Ounces Downfill
Total Weight: 4 lbs. 8 oz.

ULTRALIGHT REGULAR

For Persons to 6' 0",
32 Ounces Downfill

Total Weight: 3 lbs. 5 oz.

ULTRALIGHT LONG

For Persons 6' 3",
35 Ounces Downfill

Total Weight: 3 lbs. 10 oz.



Tulip Bulb Footsection

A semi-rectangular bag with the emphasis on comfort, the SOUTHERN COMFORT is our most spacious down bag. There is plenty of room to stretch out and room to store clothing. It also covers a great deal of space when it is spread like a comforter, or when two are zipped together one on top of another. Intended for the three season backpacking and camping enthusiast, this lightweight down bag features nearly every Snow Lion innovation. Its two-way, No. 5 Vision zipper extends all the way around the foot section, affording numerous possibilities for ventilation. The versatility found in the SOUTHERN COMFORT is a vivid example of Snow Lion's continued dedication to the principles of design excellence coupled with unmatched quality of materials and workmanship. If you are uncompromising in your demands for room and comfort, then test sleep a SOUTHERN COMFORT on your next trip to the wilderness.

A generously proportioned mummy, the four season NORTHSTAR is wider and longer than the ULTRALIGHT and is constructed with deeper baffles and more down for greater loft. It is intended for the mountaineer likely to encounter severe or prolonged weather conditions at high altitude as well as the avid cold weather backpacker. The NORTHSTAR features all the Snow Lion innovations including the *Two Zipper System, Differential Baffle Depth, Body Contour Baffling, Ground Level Side Blocks, Tulip Bulb Foot Section, Four Pattern Shell Construction, Differential Cut, and Tuck Stitching*. Its advanced and sophisticated design, its durability and dependability, and its tremendous popularity among those who need a sleeping bag for more than occasional use have made the NORTHSTAR one of the most outstanding down sleeping bags manufactured anywhere in the 2 1/2 lb. fill category. It has been especially gratifying that, as the sleeping bag consumer has become more discriminating, the demand for the NORTHSTAR has dramatically increased. Examine this bag firsthand and we think you will understand why.

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The slim and incredibly lightweight **LIMITED LIGHT** has quickly become the most popular of our Limited Edition Series. It has been created for the climber, backpacker and rucksack traveller who requires a four season bag that will squeeze into the tiniest of places and weigh as close to nothing as possible. We feel that this bag represents the most advanced expression of the warmth-to-weight ratio in existence anywhere. Yet, its 20 oz. (22 oz. long) of Limited Edition down produce 6" of loft and an average comfort minimum of 5°F. Although some individuals may find its thermally efficient tapered shape confining, it is reasonably wide at the shoulders and *tulip buffed* at the foot. Because the **LIMITED LIGHT** is designed to be compact and lightweight, it is equipped with a simple, two-way No. 5 Vision zipper. It will pair side by side with any Snow Lion two zipper bag of opposite zipper. Special features include our exclusive *Differential Baffle Depth, Four Pattern Shell Construction, Body Contour Baffling, Differential Cut, Tulip Buff Foot Section, and Tuck Stitching*. In the maximization of the warmth-to-weight concept, in the level of detailed workmanship, in the quality of materials, and in the filling power of the downfill, the **LIMITED LIGHT** is unmatched among the world's lightweight sleeping bags.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 5°F

Available in Spruce Green—Stuff Sack Included

LIMITED EDITION LIGHT SMALL

For Persons to 5' 7"

18 Ounces Downfill

Total Weight: 2 lbs. 5 oz.

LIMITED EDITION LIGHT REGULAR

For Persons to 6' 0"

20 Ounces Downfill

Total Weight: 2 lbs. 9 oz.

LIMITED EDITION LIGHT LONG

For Persons to 6' 5"

22 Ounces Downfill

Total Weight: 2 lbs. 13 oz.

The **LIMITED EDITION STANDARD** has been designed for the highest level of excellence in a sleeping bag. The quality of materials, the technology of design, and the detailed workmanship built into this bag is unsurpassed. The first of our highly acclaimed Limited Edition Series, the **LIMITED STANDARD** has proven itself around the world.

In a 1976 survey by Backpacker Magazine, the **LIMITED STANDARD** received the highest rating in comparison

with other top "2 lbs. fill" down bags in the country. In addition to the super filling power of the downfill, the **LIMITED STANDARD** incorporates an unparalleled variety of sophisticated features including our revolutionary *Optional Collar System*—softside Velcro® strips and recessed snaps have been carefully and permanently installed at the curve of the neck to accommodate the optional collar—the *Two Zipper System, Differential Baffle Depth, Body Contour Baffling, Ground Level Side Block, Tulip Buff Foot Section, Four Pattern Shell Construction, and Tuck Stitching* at twelve stitches per inch. It is not a restrictive, tight-fitting bag. Rather, it is cut along the same spacious mummy lines as the **NORTHSTAR**. Considering all the essential criteria for evaluating four season down bags, the **LIMITED STANDARD** is the finest in the world.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: -20°F

Available in Rust—Stuff Sack Included

LIMITED EDITION STANDARD REGULAR

For Persons to 6' 2"

32 Ounces Downfill

Total Weight: 3 lbs. 12 oz.

LIMITED EDITION STANDARD LONG

For Persons to 6' 7"

34 Ounces Downfill

Total Weight: 4 lbs. 12 oz.

LIMITED EDITION EXPEDITION REGULAR

Avg. Min. Temp. Conservatively Estimated: -40°F

Available in Cherry Red—Stuff Sack Included

LIMITED EDITION EXPEDITION LONG

For Persons to 6' 2"

44 Ounces Downfill

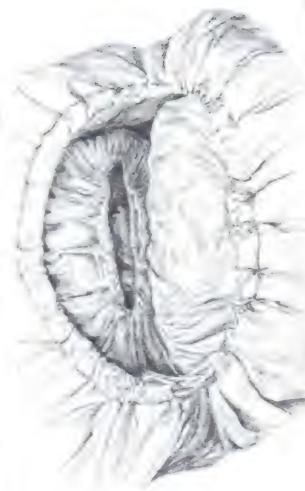
Total Weight: 4 lbs. 12 oz.

LIMITED EDITION EXPEDITION LONG

For Persons to 6' 7"

47 Ounces Downfill

Total Weight: 5 lbs. 2 oz.



The **LIMITED EDITION EXPEDITION** is unquestionably one of the world's premier downfilled sleeping bags. It is intended for alpine mountaineers who anticipate prolonged use at high altitude and extremely cold conditions. The **LIMITED EXPEDITION**'s reputation is built on its unsurpassed level of technical and designing excellence. Every Snow Lion sleeping bag innovation is featured: the *Two Zipper System, Differential Baffle Depth, Body Contour Baffling, Ground Level Side Block, Tulip Buff Foot Section, Four Pattern Shell Construction, and Tuck Stitching*.

A downfilled collar with Velcro® and drawcord adjustments is permanently sewn-in at the shoulders. So that bulky clothing may be worn if desired, the **LIMITED EXPEDITION** is cut wider than any of our down bags and is equipped with the largest foot section. To achieve the remarkable 10"-plus loft, extremely select and expensive Limited down is filled in slanted baffle walls which are 10" wide in the upper portion of the bag and 6" in the lower portion. Although it is nearly impossible for the average person to ever sleep cold in this bag, the **LIMITED EXPEDITION** is far too warm for normal backpacking.

Avg. Min. Temp. Conservatively Estimated: -40°F

Available in Cherry Red—Stuff Sack Included

LIMITED EDITION EXPEDITION LONG

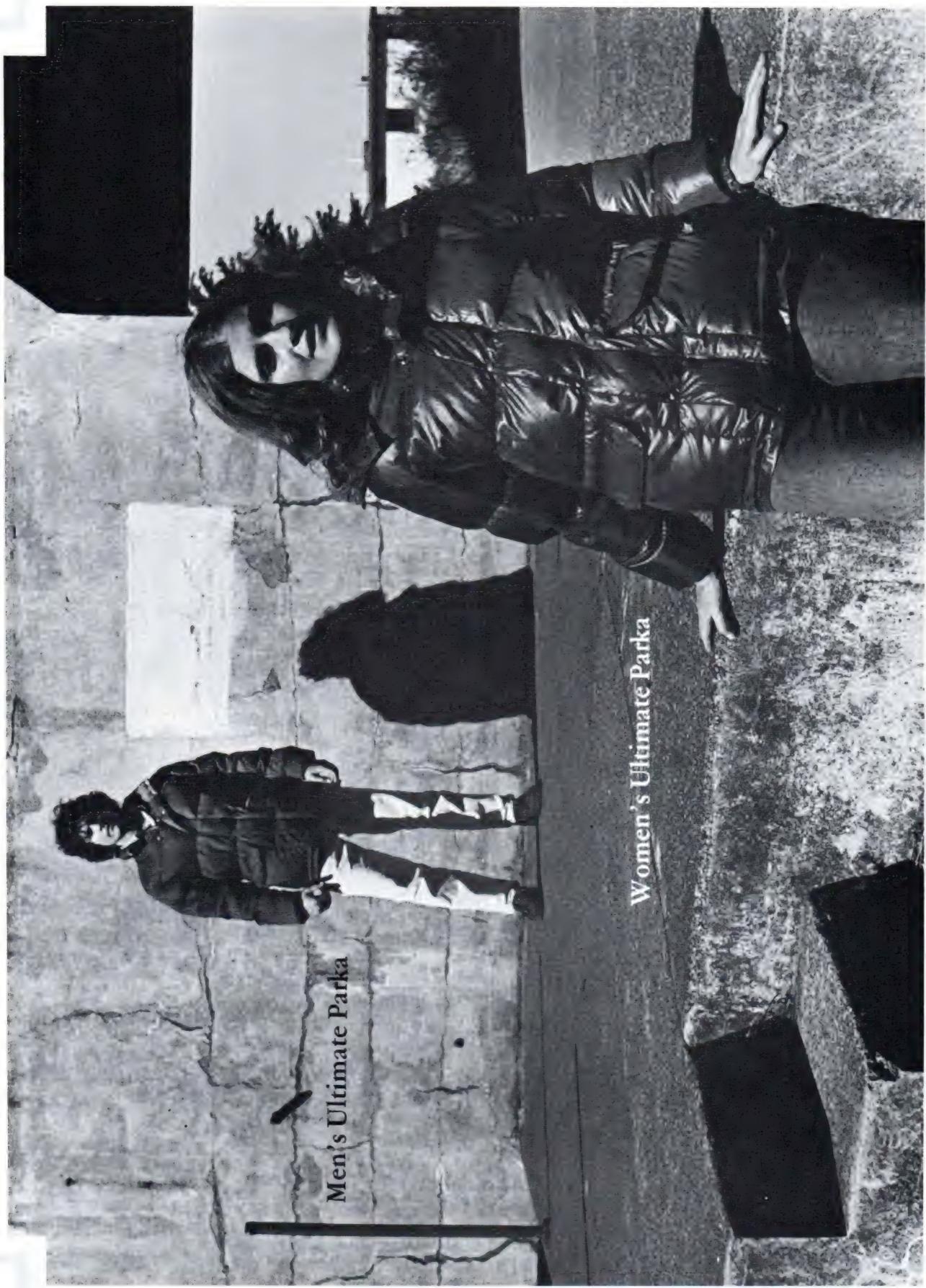
For Persons to 6' 2"

44 Ounces Downfill

Total Weight: 5 lbs. 2 oz.



DOWN
CLOTHING



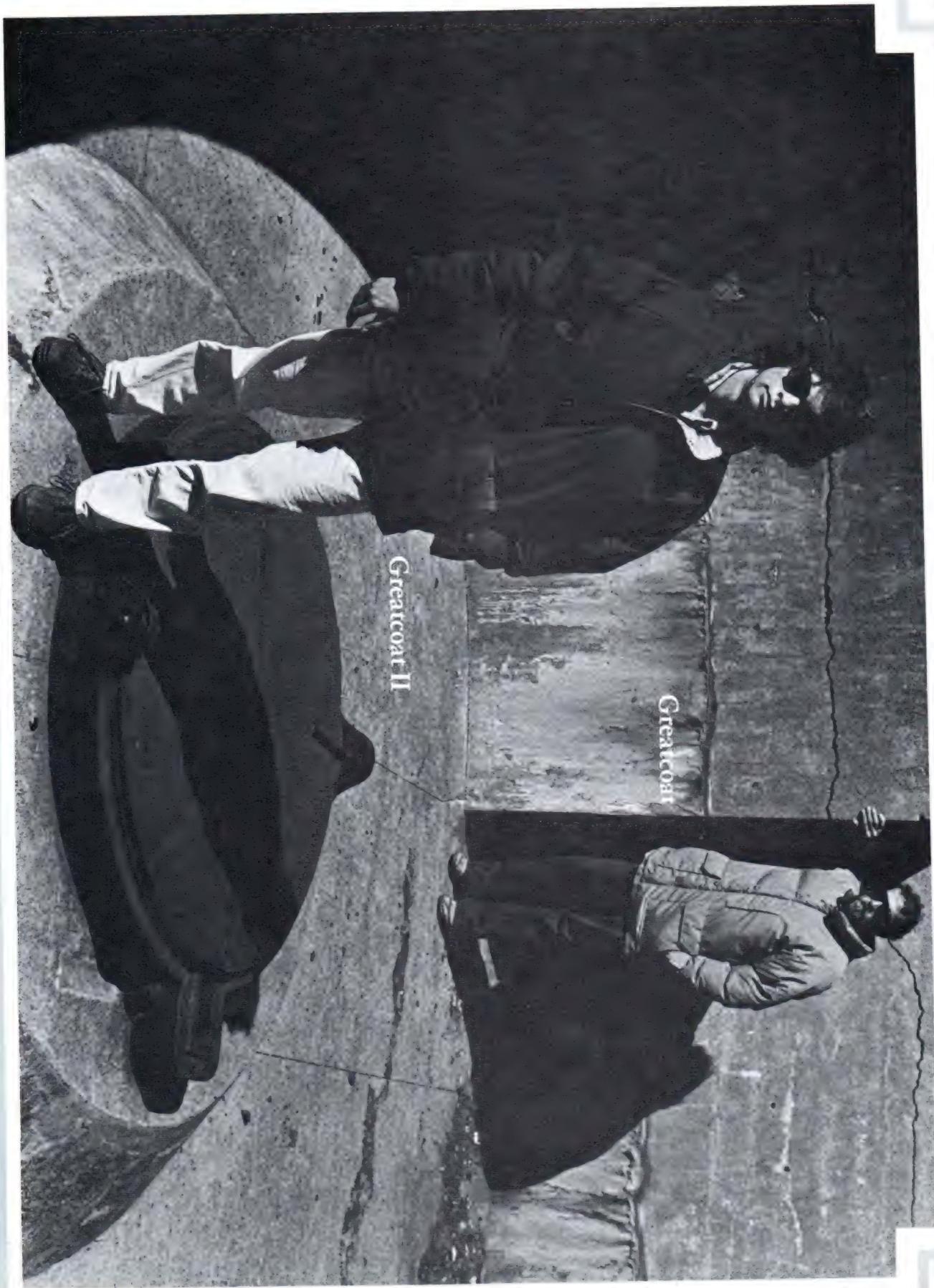




Alpine Vest

Super Vest

Bering Vest



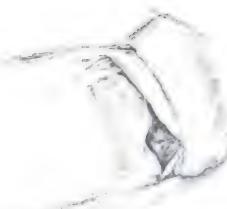


Expedition
Parka

Bering Parka

ULTIMATE PARKA

It's ironic that the **ULTIMATE PARKA** may well be the most popular down parka offered in mountaineering/backpacking shops across the country. Our original goals were to satisfy the needs of serious mountaineers for active use in cold weather. The result was an innovative and functionally efficient parka with great loft, flexibility and durability, which, surprisingly, attracted a large segment of the general public as well as the mountaineering community. Now as common a sight around town or campus as in the mountains, the **ULTIMATE**'s appeal is due to its unique combination of performance-oriented features and trim-fitting good looks. The **ULTIMATE** is special among sewn-through down parkas because the individual compartments are stitched first, then filled section by section with pre-measured amounts of down. Although considerably more time-consuming than the conventional *fill first, stitch last* method, the **ULTIMATE**'s precision stitching and filling assure even loft and perfect seam alignment. To prevent the usual shoulder cold spot, the **ULTIMATE** features our exclusive knit-baffled shoulder wall—a difficult sewing technique which allows substantial shoulder loft while stopping down from shifting from front to back. Another innovative touch is Snow Lion's non-snap-through throat snaps (the metal does not penetrate the collar and touch the skin). Still another advanced design is the **ULTIMATE**'s "extended fabric snap system" for hood attachment, which makes the simple *cold snap through the collar* method obsolete.



Velcro® closures and our exclusive *no-loss* flaps, handwarmer pockets, two inner storage pockets, two-way #5 Vision zipper with snap down draft flap, 1.9 oz. ripstop or taffeta nylon throughout, average downfill of 12 ounces, 4" down-filled collar, elastic and snap closures at the wrists, nylon drawcord at the waist, and a stuff sack with cord-lock. All inner armbore and sleeve joinings are both Overlock Stitched and tape-capped for extra strength.

Finally, in a positive response to the many letters and calls citing our industry's sexist sizing policies, we introduced in 1976 the Women's **ULTIMATE**. We are happy to report it was a smashing success and we will continue to offer women's sizes in the **ULTIMATE** and many other Snow Lion parkas.

Average Weight: 29 oz.

Available in Midnight Blue, Royal Blue, Spruce Green or Cherry Red Ripstop and Dark Blue or Rust Taffeta.

Women: S(8-10), M(10-12), L(12-14).

Men: XS, S, M, L, XL

HOOD FOR ULTIMATE

Baffled like a sleeping bag, the **ULTIMATE HOOD** has no sewn-through spots. It attaches via our *extended fabric snap system* which eliminates the cold neck snaps of conventional construction. One size fits all.

Snow Lion's non-snap-through throat snaps (the metal does not penetrate the collar and touch the skin). Still another advanced design is the **ULTIMATE**'s "extended fabric snap system" for hood attachment, which makes the simple *cold snap through the collar* method obsolete.

two large down-filled cargo pockets with 5" Velcro® closures and our exclusive *no-loss* flaps, handwarmer pockets, two inner storage pockets, two-way #5 Vision zipper with snap down draft flap, 1.9 oz. ripstop or taffeta nylon throughout, average downfill of 12 ounces, 4" down-filled collar, elastic and snap closures at the wrists, nylon drawcord at the waist, and a stuff sack with cord-lock. All inner armbore and sleeve joinings are both Overlock Stitched and tape-capped for extra strength.

Average Weight: 23 oz.

Available in Dark Blue, Kelly Green, or Rust.

XS, S, M, L, XL.

DOWN SHIRT

The exceptionally lightweight and compressible **GREEN MOUNTAIN SWEATER** is hardly noticeable in your pack. But on your back, the attractive, snug-fitting sweater is just the opposite: Originally designed for the backpacker or climber who would ordinarily leave his or her heavier down parka at home, this new jacket may capture those hearty and warm blooded individuals who forewear the bulky and live by the trim and light. The attractive hip length **GREEN MOUNTAIN** features 1.7 oz. nylon taffeta throughout, *smaps only* down the front to save weight, oversized handwarmer pockets, 3" down-filled collar, our knit baffled shoulder wall, snap and elastic wrist closures, inner storage pocket and elastic hip panels to insure a proper fit. Average downfill is 8½ ounces.

Average Weight: 21 oz.

Available in Midnight Blue, Spruce Green, Scarlet, or Rust.

XS, S, M, L, XL.

Although no one would have believed it a few years ago, the down shirt is making a strong bid for public acceptance across the country, from San Diego to Atlanta to Philadelphia and places in between. Where baseball jackets, windbreakers and pull-over sweaters were once the only way to take the sting out of the cold and wind, down shirt-jackets are suddenly making the scene. With the advantages of down becoming more widely known, sensible people are quick to realize the amazing versatility of the down shirt: warm enough to fight modestly cold weather by itself, agreeable in combination with larger parkas or shells, easy to take care of and machine washable, compressable enough to squeeze into a tiny stuff sack and down right good looking! Our **DOWN SHIRT** features one of the strongest, most tightly woven nylon we have ever used: a 70 denier taffeta with a 165 x 95 construction, extra wind-resistant and water-repellent. Other attributes include two pleated breast pockets with snap closures, double stitching along nearly every seam, nickel plated snaps down the front and at the cuffs, extra long body, high and wide collar, and 5 ½ ounces average downfill. Our tailored **DOWN SHIRT** is normally worn over everyday shirts and blouses. Try one on and see if you don't put your old windbreaker into cold storage.

"Sensible! Very good looking. Perfect fit!" Those are typical of the comments made about our new **ALPINE VEST**. We've improved the traditional down-filled backpacker's vest by taking a few inches from the girth, elasticizing the hips, and adding unusually large handwarmer pockets. Other attributes include ripstop nylon throughout, front snap closures, 3" down-filled collar and our knit baffled shoulder wall. These assets, combined with the **ALPINE**'s exceptionally light weight, make it ideal for use with shell parkas and anoraks. Average downfill is 5 ounces.

Average Weight: 11½ oz.

Available in Midnight Blue, Spruce Green, or Rust.

XS, S, M, L, XL.

BERING VEST

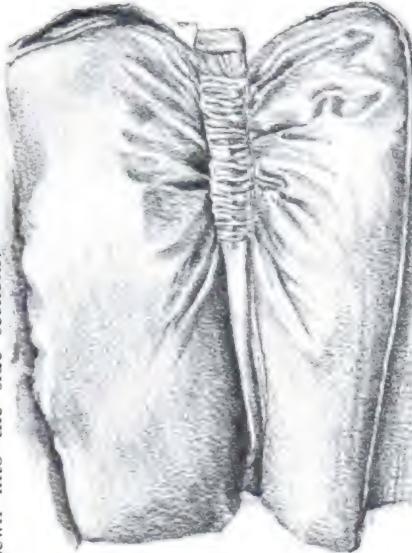
One of the most unique garments in existence, the **BERING VEST** is a fully baffled, sleeveless parka. It has been created for those "won't settle for less" outdoorspersons who demand maximum body warmth, minimum weight, and arm flexibility. The construction concept is patterned after the **BERING PARKA**: sleeping bag style slant wall baffling throughout. Even the zipper and snap flaps are baffled. There are absolutely no sewn-through spots. Like all our down garments, this vest is stitched first, then filled section by section with premeasured amounts of down. We believe that the **BERING VEST** is the warmest lightweight vest ever offered to the backpacking/mountainclimbing public. Other features include snag-resistant *tuck-stitching* along all baffle seams, two outer down-filled pockets with our exclusive *no-loss* flaps and Velcro® closures, two hand warmer pockets, two interior storage pockets, elastic expansion panels sewn into each side, 1.9 oz. ripstop nylon, 8½ ounces average downfill, 3" rear extension, reinforcements at all stress points, and stuff sack with cordlock. Now available in six sizes.

Average Weight: 19 oz.

Available in Royal Blue or Cherry Red.

XS, S, M, L, XL.

Die-hard vestites have asked for something more than the simple, traditional vest with exposed zippers and flimsy pockets. While most down vests offer either snap or zipper closures, the **SUPER VEST** provides both: a down-filled draft-flap snap-closed over a two-way #5 Vislon zipper. Thus, the option is open to use the zipper, the snaps or both. Another **SUPER VEST** advantage is its six pockets: two outer down-filled pockets with our exclusive *no loss* flaps and Velcro® closures, two handwarmer pockets and two interior storage pockets. In addition, to insure a good fit, each **SUPER VEST** is equipped with elastic expansion panels sewn into the side sections.



Like the **ULTIMATE PARKA**, the **SUPER VEST** is stitched first and filled section by section. It even has our exclusive knit baffled shoulder wall. Other features include 3' high down-filled collar with non-snap-through throat snaps, 1.9 oz. ripstop nylon, 6½ ounces average downfill, 3" rear extension, reinforcements at all stress points, and stuff sack with cordlock. Now available in six sizes.

Average Weight: 15 oz.

Available in Midnight Blue, Royal Blue, Spruce Green, Cherry Red, or Brown.

XXS, XS, S, M, L, XL.

GREATCOAT AND GREATCOAT II

In the down clothing world, the **GREATCOAT** has achieved an enviable reputation for ruggedness, luxury and design. It is a beautiful three-layer garment tailored to afford warmth and comfort in high winds at sub-zero temperatures. As the name implies, this parka/coat is cut large enough to easily accommodate bulky shirts or sweaters when desired. It is the ideal coat for all-around winter use. Although our **GREATCOATS** are among the most rugged downfilled articles produced anywhere, the 1977 versions are also particularly good looking. Attractive color schemes have been selected to take some of the meanness out of these cold fighters. The outer shell is a wind-tight, water-repellent blend of medium firm 65% / 35% polyester/cotton. This beautiful two-ply fabric is made especially for the **GREATCOAT** and cannot be found on any other down garments in existence. It is sewn at the outer seams to a substantial down-filled quilt lined with stylishly contrasting 1.9 oz. ripstop nylon. For maximum mobility, the shoulders have been cut in a wide angle raglan pattern. Seven pockets are standard: two large 9" x 11" cargo pockets with *no loss* flaps and 5" Velcro® closures, two downfilled handwarmer pockets, a vertical Ziplon coil zipper, and two interior storage pockets.

Like other **Snow Lion** down garments, the individual compartments are stitched first, then filled section by section with pre-measured amounts of down. In addition, a two way, #5 Vision zipper with snap-down weather flap, a 4½", downfilled collar with non-snap-through throat snap, a nylon drawcord at the waist, and our unique *extended fabric snap system* for hood attachment are also standard features. We offer two variations of this extremely popular coat. The thigh length **GREATCOAT** features adjustable Velcro closures at the cuff, gusseted cargo pockets and 14 ounces average downfill. The new **GREATCOAT II** is 4" shorter, has wool wristlets sewn inside the cuffs, pleated cargo pockets and 11½ ounces average downfill.



GREAT COAT, cont.

Optional down-filled hoods are available.



GREATCOAT

Average Weight: 42 oz.

Available in Navy, British Tan, or Mahogany.

GREATCOAT II

Average Weight: 42 oz.

Available in Navy, British Tan or Spruce Green.

XS, S, M, L, XL.

HERING PARKA

The development and production of the BERING PARKA represents one of the few major breakthroughs in the mountaineering industry in a decade. During the final testing on the Bering Glacier in the winter of 1974/75, the BERING PARKA proved itself to be the

lightest, bonafide subzero parka manufactured anywhere in the world. We created the BERING to fill the tremendous void between existing sewn-through and expedition garments. The BERING is a completely baffled parka, much warmer than sewn-through, yet not as limited in use as expedition parkas. Unlike cumbersome, loft restrictive double-quilted parkas, the usual step up from sewn-through garments, the BERING is a free lofting parka, baffled in sleeping bag style slant wall construction. This considerably lighter weight construction is more difficult and time consuming to sew than double quilting, but its much greater



HOOD FOR BERING

Baffled like a sleeping bag, the BERING HOOD has no sewn-through spots. It attaches via our *extended fabric snap system* which eliminates the cold neck snaps of conventional construction. Top seams feature snap resistant *tuck stitching*. One size fits all.

Average Weight: 33 oz.

Available in Royal Blue, Rust or Spruce Green.

XS, S, M, L, XL.

EXPEDITION PARKA

There are times and places to wear the monstrous parka described below, but they are few and far between. The baffled BERING PARKA is an outgrowth of our decision to revolutionize the design of our old

EXPEDITION PARKA, thereby creating the best sub-zero parka in the world. The fruit of our rebuilding efforts is a veritable walking sleeping bag, a very specialized parka intended for prolonged use at high altitudes and under extreme cold conditions. It is one of the few garments ever made to offer "V" tube sleeping bag construction throughout. A new baffle wall angles off at 60° every 3" on the vertical plane. An incredible network of triangular chambers is formed—sixty-six compartments must be filled and closed separately. The EXPEDITION has absolutely no sewn-through seams or cold spots. The 1977 model is insulated with an average down-fill of 25 ounces producing an awesome 7"-8" of total loft; the resulting heat retention index is phenomenal. Enhancing this insulation system is a fully baffled and oversized integral hood with a pellon-stiffened tunnel visor. The down-filled face protector is 8" high and is adjusted by three snaps and a nylon drawcord. To prevent heat loss at the wrists, wool wristlets have been sewn inside the cuffs. Because the EXPEDITION is designed to provide mobility at low temperatures, it is cut long and full with plenty of room for multiple layers of inner garments. Other features include a two-way #10 Vision zipper with a 4", non-sewn-through down-filled overflap which attaches to non-snap-through snaps, two giant outer pockets with cargo holds, Velcro® closures, no-loss flaps, down-filled hand-warmer pockets, two inner storage pockets, drawcords at the waist and bottom hem, an elastic crotch strap and a stuff sack with cordlock.

Average Weight: 3 lbs. 3 oz.

Available in Midnight Blue or Cherry Red

XS, S, M, L, XL.

POLARGUARD®
CLOTHING





Palisade Parka

Bivouac Sweater



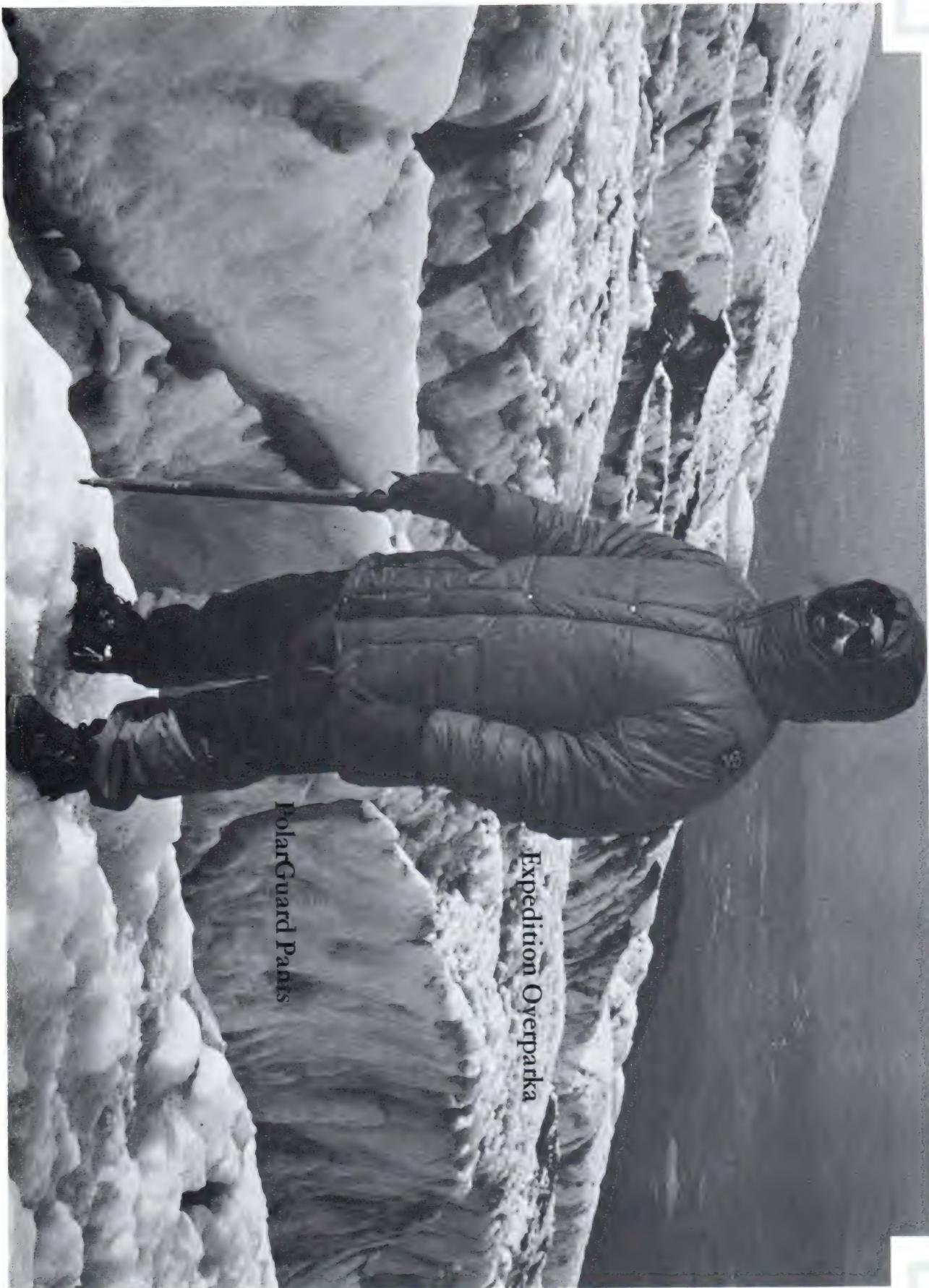
Thunder Bay Parka



Rocky Mountain in Parka

Stetson





Expedition Oyerparka

PolarGuard Parka

PALISADE PARKA

The **PALISADE** is the definitive Polarguard parka, a design and quality standard for other polyester garments. Each year it is further refined and improved. For the first time, it is available in Women's sizes. The **PALISADE** is a trim, double quilted Polarguard parka intended to be attractive around town as well as warm and functional in the mountains. The continuous filament Polarguard makes it resilient, long-lasting, machine washable, and much easier to take care of than down or other fiberfill garments. If the outer fabric tears or punctures, the Polarguard will stay in place and continue to provide effective insulation. And, like all our Polarguard products, the **PALISADE** will maintain its protection when damp, wet or icy. The **PALISADE**'s Offset Double Quilt construction makes it warmer than traditional sewn-through parkas, and its tailored cut gives it a better fit and makes it far less bulky than standard synthetic garments. So that you won't forget a **PALISADE** when you see one, the inner linings are made of colorfully contrasting ripstop nylon. Other features include a two-way, #5 Vislon zipper with a snap down Polarguard-filled weather flap, two outside Polarguard-filled cargo/hand warmer pockets with Velcro® closures, snap and elastic wrist adjustments, a 4" Polarguard-filled collar with snap closure, a drawcord at the waist, and our *extended fabric snap system* for attachment of the optional hood. Holding all this together is a reinforcement technique in which every quilted **PALISADE** part (sleeve, pocket, body, etc.) is individually cut and Overlock Stitched before being sewn together. The result is a comfortable parka which is as tough as it is good looking.

Average Weight: 30 oz.

Available in Midnight Blue, Rust or Spruce Green

Women: S(8-10), M(10-12), L(12-14)

Men: XS, S, M, L, XL

BIVOUAC SWEATER

We have designed our new **BIVOUAC SWEATER** to be a tough, warm, and lightweight companion for the serious rock climber who detests hauling needless gear on a climb. Even the skimpiest rucksacks have room for this compact Polarguard sweater. Its hip length and double quilting are ideal for the chilly, wet or windy periods one is apt to encounter half way up some lonely wall. Naturally, the **BIVOUAC** isn't restricted to climbers. As a knocking around town jacket for those who desire the advantage of Polarguard without the bulk and weight of larger parkas, the **BIVOUAC** is the perfect garment. Take a closer look and you'll find that it has large, Polarguard-filled handwarmer pockets, overlapping snap front closures, elastic and snaps at the wrists, a 3" Polarguard-filled collar, and a beautiful outer shell of durable nylon taffeta.

Average Weight: 23 oz.

Available in Royal Blue or Spruce Green

XS, S, M, L, XL

Average Weight: 36 oz.

Available in Navy, Forest Green or Mahogany

Women: S(8-10), M(10-12), L(12-14)

Men: XS, S, M, L, XL

CHILD'S THUNDER BAY

The double-quilted **THUNDER BAY PARKA** offers a tough new dimension to the Polarguard garment scene. Although it is cut along the same trim lines as the **PALISADE**, the **THUNDER BAY**'s rugged, 65% / 35% polyester/cotton outer shell makes it a much more abuseable garment. The quilted 65/35 is a specially blended fabric with superior water-repellent and abrasion-resistant qualities. It is attached to an inner quilt lined with medium-hand ripstop nylon. The continuous filament Polarguard enhances its overall durability; it is more resilient, long-lasting, machine washable, and much easier to take care of than down or other fiberfill garments. And, like all our Polarguard products, the **THUNDER BAY** will maintain its protective insulation when damp, wet or icy. Other features include a two-way, #5 Vislon zipper with a snap-down Polarguard filled weather flap, two outside Polarguard filled cargo/handwarmer pockets with Velcro® closures, snap and elastic wrist adjustments, a 4" Polarguard-filled collar with snap closure, a drawcord at the

waist, and our *extended fabric snap system* for attachment of the optional hood. Every quilted section (sleeve, pocket, body, etc.) of the hardy **THUNDER BAY** is individually cut, Overlock Stitched, and reinforced before being joined to an adjacent section. Because it is intended for the avid outdoorsperson who will give it maximum use and minimal care, we feel the **THUNDER BAY** is one of the toughest parkas available anywhere. Now offered in Women's sizes.

Average Weight: 22 oz.

Available in Navy or Forest Green

S(8-10), M(10-12) L(14-16)



STORMCOAT

With the development of a remarkable fabric, Stormfibre, has come the inspiration for our exciting new **STORMCOAT**. It will be available in mountaineering shops by December 1, 1977. Possessing a rare combination of characteristics, this impressive, all-weather coat is both durable and comfortable. Keeping the elements at bay is our exclusive 100% cotton Stormfibre, a closely woven 8 oz. material which is one of the finest water-repellent, windproof fabrics in the world. Its two ply construction is 166 x 66, 60/2 x 30/2. Warmth and comfort are the result of a thick inner layer of Polarguard, fully lined through body, sleeves and hood, and quilted to an inside lining of soft, 3.8 oz. polyester/cotton. The generously cut **STORMCOAT** features double stitched raglan sleeves and a roomy hood with drawcord and leather slide fasteners. Other attributes are a two-way #10 Vision zipper, covered by a Polarguard-filled weather flap, gusseted wrists with Velcro adjustments, four cargo pockets with Velcro closures, two handwarmer pockets, and a waist-high nylon drawcord. Like all our Polar guard clothing, the sewing reinforcements are formidable: the sleeves, side seams, pockets and zippers are double stitched, all body pieces are overlocked and all stress points are bartacked. Add these features to the Stormfibre outer, and poly/cotton lining, and the end product is one incredible garment, perfect as car coat, stadium coat, or snow coat.

Average Weight: 44 oz.

Available in Rust, Royal Blue or British Tan

XS, S, M, L, XL

ROCKY MOUNTAIN PARKA

Our explosive new version of the **ROCKY MOUNTAIN PARKA** features a scalloped western style shoulder yoke of waterproof nylon taffeta. Velcro® wrist closures, and hexagon pocket flaps with hidden Velcro® strips. Backing up its exciting appearance is a mixture of high quality materials and top-notch construction. An outer layer of wind-tight, water-repellent 65% / 35% polyester/cotton makes the **ROCKY** an *all terrain* parka, perfect for the hard and constant user with a

"haven't got time for maintenance" attitude. This superior blended fabric is treated with a tough protective finish and is made especially for Snow Lion. The waterproof shoulder yoke extends to cover the upper back and collar.



Beneath the outer shell is a thick layer of Polarguard quilted to a colorfully contrasting lining of ripstop nylon. When wearing the **ROCKY MOUNTAIN**, the suggested fit allows good arm flexibility and just enough inside room for a heavy shirt or sweater. Standard features include two Polarguard-filled cargo/hand warmer pockets, a two-way #5 Vision zipper with a snap down weather flap, a 3" Polarguard-filled collar, our *extended fabric system* for attachment of the optional hood, and a nylon drawcord at the waist. Like the **PALISADE** every part (sleeve, pocket, body, etc.) of the **ROCKY MOUNTAIN** is individually cut and Overlock Stitched before being sewn together. All stress points are bartack reinforced. Add all these features together and the finished parka is nothing less than dynamite. Just about everyone who tries on this "one of a kind" parka wants to own one. Try on a **ROCKY MOUNTAIN** and test your will power!

Average Total Weight: 39 oz.

Available in Navy, Forest Green, Mahogany (Taffeta Yoke in Assorted Colors)

XS, S, M, L, XL

TETON VEST

The **TETON** is a rugged, good looking vest with one thick layer of Polarguard quilted to a ripstop nylon inner lining and covered by 65/35 cloth. This fabric is a wind-tight, water-repellent blend of 65% / 35% polyester/cotton, specially woven for Snow Lion by one of the premier makers of durable outdoor materials. Other features include overlapping snap front closures, two Polarguard-filled hand warmer pockets, a 3" Polarguard-filled collar, and a rear kidney extension. All inside pieces are joined by Overlock Stitching and all stress points are bartack reinforced. The fabric combinations and contrasts make the versatile **TETON** as wildly attractive as it is durable, dry, and dependable. The crew of Courageous must have agreed, they wore the **TETON** during their successful defense of the 1977 America's Cup.

Average Total Weight: 18 oz.

Available in Navy, Mahogany or Forest Green

XS, S, M, L, XL

YOSEMITE VEST

"Kick the hell out of it and it still stays in one piece. Drench it, wring it out, and it's immediately useable. This thing really hangs tough!" The preceding, from a **YOSEMITE** owner, is typical of the comments we receive about this garment. It is a double quilted vest made with two offset layers of Polarguard quilted to 1.9 oz. ripstop nylon. The double layer construction makes it considerably warmer than sewn-through vests and makes it perfect for use over a long sleeve shirt as well as under a light shell or insulated parka. It features two Polarguard-filled hand warmer pockets, overlapping snap front closures, a Polarguard-filled hand warmer pockets, overlapping snap front closures, a 3" Polarguard-filled collar, and a rear kidney extension. All inside pieces are joined by overlock stitching and all stress points are bartack reinforced. Although used extensively as an undergarment in cold weather expeditions and as an outer for drippy-walled climbing, most **YOSEMITE** owners are everyday backpackers and skiers.

Average Total Weight: 14 oz.

Available: Royal Blue, Spruce Green or Tan

XS, S, M, L, XL



EXPEDITION OVERPARKA

This garment was specially developed for several major American expeditions during the winter of 1974/75. Since expedition members raved about its durability and performance, we decided to make the **OVERPARKA** available to the general public. It is generously sized to fit comfortably over lighter parkas, vests and shirts. The construction is *Offset Double Quilt* everywhere: body, sleeves and hood. Although it is our thickest Polarguard garment, it is by no means "too thick." When combined with other layers of clothing, a degree of versatility not found in "super thick" parkas is created. Its existence obviously supports the layered insulation principle. Special attributes are a large integral hood with nylon drawcord and snap closures, inset wool wristlets, and a two-way, #10 zipper with snap down weather flap. Standard features include two outer cargo pockets with Velcro® closures, hand warmer pockets, nylon drawcords at waist, thigh, and hood and a waterproof stuff sack.

Average Total Weight: 2 lbs. 9 oz.

Available in Midnight Blue or Rust S, M, L, XL

POLARGUARD PANTS

Our high back **POLARGUARD PANTS** are composed of one quilted layer of ripstop nylon and Polarguard attached to an outer shell of 2.2 oz. water-repellent nylon taffeta. The cut is extra long and roomy to provide maximum bend and flexibility. #5 Vision zippers extend up the inside length of both legs so that the zippers may be paired to form a half sack. The zippers

open from the bottom as well as the top to coordinate with boots and/or crampons. Each leg zipper is backed by a Polarguard-filled draft flap. The **PANTS** also feature a fly zipper, covered by a snap down weather flap. Patch pockets with Velcro® closures are sewn to the front thigh of each leg.

Average Total Weight: 1 lb. 8 oz.

Available in Orange

S, M, L, XL

POLARGUARD MITTS

Protection of the hands is critical to anyone who plans to spend time in cold or wet-cold conditions. Unlike down, which quickly absorbs moisture and becomes non-functional, Polarguard maintains insulation when wet and keeps the hands warm and dry. Our **MITTS** average 13" in length, covering the hand as well as the forearm. The entire palm side of each mitt is covered with rugged 11 oz. waterproof Cordura. The back side covering is 6 oz polyester/cotton, breathable and water-repellent. Both sides are insulated with a single layer of 10 oz. Polarguard. The inner lining is 1.9 oz. ripstop nylon. Wristlets are sewn inside each mitt to help retain warmth and prevent snow from creeping in. The fit is controlled by a strip of 3/4" nylon webbing and an easy-to-adjust buckle located at the outer wrist.

Available in Assorted Colors

S, M, L



BOOTIES

Booties are great for keeping feet warm on cold nights around camp or chilly evenings at home. Unfortunately, conventional down booties offer almost no foot support, are difficult to walk in, and become useless when wet. Our **POLARGUARD BOOTIES** provide a realistic alternative, for they have been designed to provide insulation and walkability as well as warmth and comfort. These **BOOTIES** are so well liked that numerous alpine expeditions have used and sworn by them. One returning member of a successful expedition described them as "the greatest invention ever!" They are 10" high with double layer Polarguard uppers. The sole is 11.5 oz. waterproof Cordura, backed by a 1/2" ensolite pad, and topped with a nylon covered layer of Polarguard. The Cordura extends 1 1/2" up the sides from the sole for added stability. The inner and outer shells are 1.9 oz. ripstop nylon. Elastic extends across the ankle and instep to hold the foot in place when walking. A drawcord is located at the top.

Available in Assorted Colors

XS, S, M, L, XL

SHELL
GARMENTS



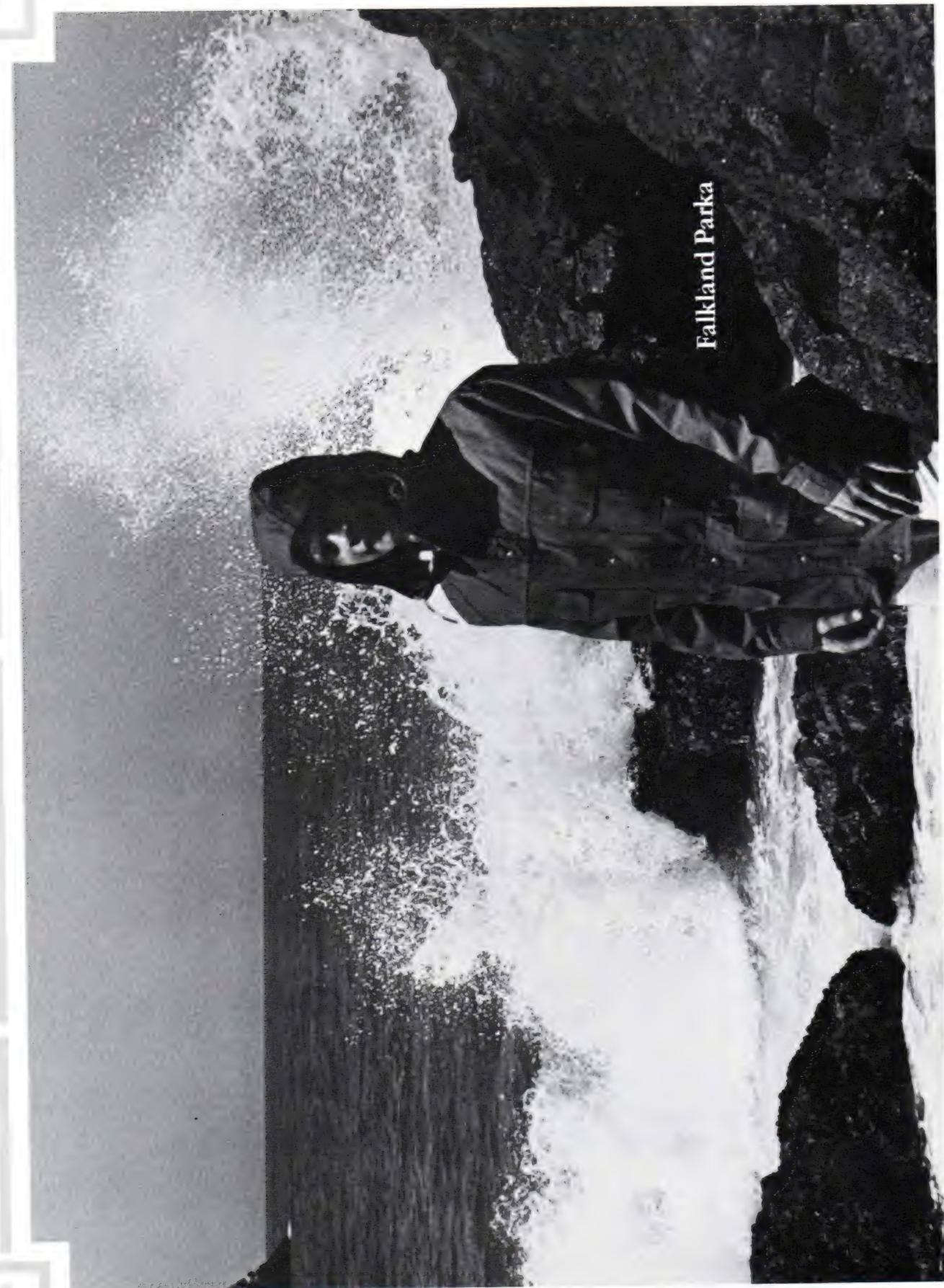


Mountain Parka

Western Mountain Parka



Falkland Parka



WESTERN MOUNTAIN PARKA

When we designed this parka, our goal was to combine good looking features and styling with super functionality. After consulting our nation-wide network of mountaineering shops and after putting together and testing numerous prototypes, we finally began manufacturing a unique, highly versatile garment, which we later dubbed the **WESTERN MOUNTAIN PARKA**. For the base exterior fabric, we asked one of the world's premier makers of durable outdoor fabrics to make a wind-tight, water-repellent blend of 65% polyester/35% cotton specially for us.



To improve on the all-weather capability of the parka, we covered the shoulders, hood, upper back and upper chest with a scalloped "western style" yoke of waterproof nylon taffeta. We lined the interior with two fabrics. The inside upper body, hood and shoulders were introduced to 100% cotton Stormfibre. This highly regarded material was unmatched among natural fabrics for its durable and tightly woven hand. The inside lower body and sleeves were lined with the same blended polyester/cotton as the outer shell. To the outside we installed six pockets: two lower cargo pockets with "no-loss" flaps and 5" Velcro® closures, two handwarmer pockets, and vertical chest and rear pockets with #7 Ziplon coil zippers. The front zipper was a two-way, #10 Vision, covered by a large, double-layer, snap-down weather flap; an inside 65/35 flap to prevent the zipper from touching the throat. Like the **MOUNTAIN PARKA**, the **WESTERN** featured a large integral hood adjusted through a nylon drawcord with leather slide fasteners. Another drawcord with leather slide fasteners controlled the tension at the waist. Wrist ventilation was adjusted by Velcro® tabs and sewn-in triangular gussets. We designed a tailored raglan, sized to look

and fit well with or without bulky undergarments. Double needled sleeve and side seams, bar tacked stress points, and Overlock Stitched interior piecing were standard. In the end, we had built a parka which became our most popular shell in its first year out. It was natural, then, for us to make the **WESTERN MOUNTAIN PARKA** available in women's sizes.

Average Weight: 34 oz.

Available in Navy, Mahogany or Forest Green
(Taffeta Yoke in Assorted Colors)

Women: S(8-10), M(10-12), L(12-14)

Men: XS, S, M, L, XL

MOUNTAIN PARKA

In refining this parka, we have taken a hard look at the state of the art in the design and production of shell garments on the market. While a number of cosmetically attractive lightweight shells seem to predominate, the consensus of opinion indicates a widespread desire for a super tough, multi-purpose double layer parka. Our new **MOUNTAIN PARKA** is the answer: a doubly rugged 65/35 Parka with the emphasis on durability, function, and fit. The two-ply outer shell is a 6.5 oz. blend of 65% polyester/35% cotton specially woven for Snow Lion. The lining is a 4 oz. 65/35 cloth. Unlike most shell garments, the 65/35 lining covers the entire parka—sleeves, body and hood. This full, double lining not only makes the parka warmer, more water-repellent and wind-tight, but also adds a measure of toughness not found in lighter, partially lined shells. The cut is a thigh-length, tailored raglan, sized on the large side to fit well over bulky undergarments. Ruggedly attractive, the **MOUNTAIN PARKA** features seven pockets: pleated upper and lower pockets with double-stitched flaps and Velcro® closures; lower pockets are complete with *no loss* flaps and handwarmer pockets; a #7 Ziplon coil zipper closes the spacious rear pocket. The front zipper is a two-way #10 Vision, covered by a large, double layer, snap-down weather flap. An inside 65/35 flap prevents the zipper from touching the throat. The large integral



hood is roomy enough to accommodate a wool cap and includes an adjustment system which is controlled via a nylon drawcord with leather slide fasteners. Another drawcord with leather slide fasteners controls tension at the waist. For optimum flexibility, the wrist is adjusted by generous Velcro tabs and sewn-in triangular gussets. In addition to all these features, the **MOUNTAIN PARKA**'s greatest asset is its unsurpassed level of sewing detail: the sleeve and side seams are folded and double-needled; all other pieces are Overlock Stitched; all stress points are bar tack reinforced. The resulting combination of materials, design and workmanship makes this parka one of the truly outstanding values in the mountaineering world.

Average Weight: 32 oz.

Available in Navy, Mahogany, or Forest Green

XS, S, M, L, XL

HIGHLAND PARKA

Since its introduction during the summer of 1977, the **HIGHLAND** has become one of our most popular garments. Its initial six month sales volume has set a record for new Snow Lion products. Cut 4" shorter than our other shells, this tastefully stylish parka combines exciting and expensive fabrics with durable, detailed needlework. The outer shell, as well as the lower lining, consists of our exclusive wind-tight, water-repellent 65% polyester/35% cotton fabric. Compare this exceptional 6.5 oz. cloth to the lower quality 65/35 and 60/40 fabrics which are commonplace in our industry. After careful examination, you'll notice that the weave of our shell fabric is far more even and consistent, with fewer streaks, bumps and flaws. While our 65/35 is certainly noteworthy, it is the upper lining which gives the **HIGHLAND** its distinctive place in the mountaineering community. A kilt-weight, 14 oz. blend of 85% pure Australian lambs wool and 15% nylon is woven and dyed to our specifications and is manufactured exclusively for us. This warm wool blend is lightly brushed and dyed in authentic tartan plaids. Popular Royal Stewart compliments our deep Forest Green 65/35, handsome Dress Mackenzie creates a striking contrast when sewn inside our Navy Blue 65/35, and a daring meeting takes place between the aristocratic Ross Hunting and our British Tan 65/35. These stunning wool tartans line the upper back, chest, hood, and shoulders of every **HIGHLAND PARKA**. In addition, this parka is loaded with functional features: two lower pleated cargo pockets with *no loss* flaps and Velcro closures, handwarmer pockets, two pleated upper pockets with Velcro closures, a rear pocket with a #7 Ziplon coil zipper, a two-way #10 Vislon front zipper with snap down weather flap, and triangular gussets at the wrists with Velcro adjustments.

Tension and fit at the hood and waist are controlled via nylon drawcords with leather slide fasteners. To keep all these features in place, double stitching and barrack reinforcements are everywhere. Extremely detailed workmanship is standard. In view of the **HIGHLAND**'s rare combination of fabrics and features, it has no peer in the world of mountain shells.

Average Weight: 38 oz.

Available in Navy Blue, Forest Green and British Tan (Tartan linings are described above.)

FALKLAND PARKA

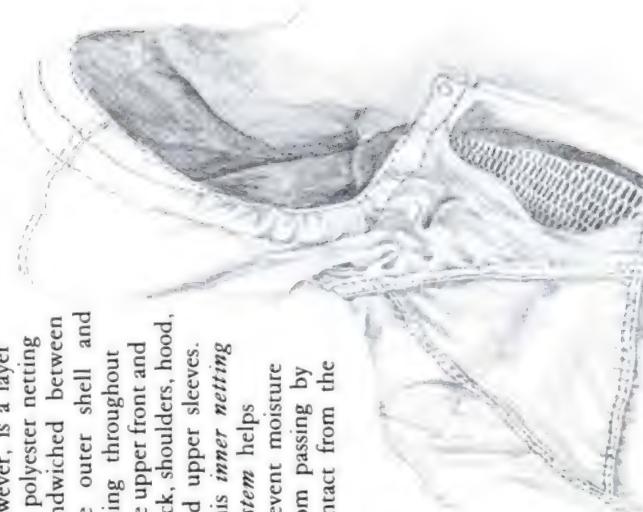
What is the perfect shell parka? One that will keep the wind out? One that will shed water? One that is so tough that it will stand up to relentless abuse? One that is sized large to accommodate vests and sweaters, yet fits well when worn alone? One that provides an extra measure of warmth? One that possesses the right amount of pockets and ventilation adjustments to meet any situation? We believe that building each of these capabilities into a single garment yields the perfect shell parka. The **FALKLAND** is such a parka. Its outer cloth is *Stormfibre*, a 100% cotton fabric which surpasses any poplin rainwear we have seen. Its incredibly dense two ply weave, 166 x 60; 60/2 x 30/2, is exceptionally water-repellent, yet breathable. Its hard finish is tough and abrasion resistant. To the touch, the consistency of combed cotton is fantastic. One of the world's foremost cotton mills weaves *Stormfibre* exclusively for Snow Lion. Like the **MOUNTAIN PARKA**, six pockets are sewn onto the front and a vertical zippered pocket onto the back, and the lining is the same 4 oz. polyester/cotton blend.

Unique to the **FALKLAND**, however, is a layer of polyester netting sandwiched between the outer shell and lining throughout the upper front and back, shoulders, hood, and upper sleeves. This *inner netting system* helps prevent moisture from passing by contact from the

outer to inner shell, and by trapping dead air, adds that "extra measure of warmth." Another zippered pocket is located inside the left chest. To regulate ventilation, the **FALKLAND** is equipped with a two-way #10 Vislon zipper with snap-down weather flap and Velcro-adjustable triangular gussets at the wrists. Drawcords with leather slide fasteners are located at the hood and waist. Importantly, because the **FALKLAND** is built to last a lifetime, every stressed seam is double stitched. The inner nylon netting is held in place by double rows of stitching visible across the upper chest and back. Barrack reinforcements are plentiful. As the preceding makes clear, the **FALKLAND** has been designed to be used and used hard, regardless of weather. It is our idea of the perfect shell.

Average Weight: 42 oz.

Available in British Tan, Royal Blue, or Rust
XS, S, M, L, XL



XS, S, M, L, XL

SHelters





Mountain Tent

Triplex Tent

Meridian Expedition

Meridian

A-FRAMES: TRIPLEX AND MOUNTAIN

In the world of high altitude tents, stability is the first consideration and the time-tested, low profile A-Frame has performed with distinction. However, such tents are often criticized for lack of room. The triangular, and the side walls are necessarily steep to prevent snow loading. Anyone who has spent even a few days tent-locked, waiting for a snow storm to subside, will readily attest that space is critical in the inevitable fight against boredom and anti-sociality. The **TRIPLEX** and **MOUNTAIN** represent the only A-

Frames which effectively combine stability and overhead space. The option of adding our technically advanced **MODULES** gives these tents a measure of versatility unmatched in the mountaineering industry.

A combination of stability and space has been achieved through the creation of our unique *Arc Effect*. This unprecedented technique improves the traditional A-Frame concept by replacing the pointed, canopy-ridge with a curved strip of nylon, which runs the length of the tent. The *Arc-Effect* is created when leather inserts, sewn into the ridge near the apex of the



Conventional A-Frame
deflection dent causes
interior air circulation

Snow Lion "Arc Effect"
virtually no dent
air flows with curve

MOUNTAIN TENT

arc. This complex technique involves special catenary patterns and labor intensive sewing procedures. However, it has three major advantages over standard A-Frame designs, making the extra production time well worth the effort.

First, is substantially increased headroom. The *Arc Effect* actually makes it possible to conduct routine activities, without constantly rubbing against the ceiling.

Second, the curved top produces a warmer tent by increasing air flow and wind stability dynamics. Our rounded canopy allows the air to flow smoothly over the tent, while the triangular tops of conventional tents deflect the air. This deflected air *destroys* the canopy causing air to circulate inside the tent. Motionless air provides the greatest insulation. Thus, all other things being equal, the less disruptive air flow of the *Arc Effect* design yields a warmer tent.

Third, the *Arc Effect* creates greater floor-space-to-height ratio while maintaining snow-load efficiency. The explanation is simple. To prevent snow from crushing the A-Frame tent, the angle of steepness for canopy walls has been fixed, by tent makers over the years. On conventional tents, the angle begins at the vertex of the triangular top. However, a vertex producing an angle of the same degree on a Snow Lion tent is located at a point above the apex of the ridge curve—where the walls would intersect if extended. Hence, when the heights of the tents and the angles of steepness are equal, Snow Lion tents have wider bases and greater floor areas than conventional tents.

The **MOUNTAIN TENT** features our A-Frame pole configuration at both ends. The height is 44' at the front, 63" at the rear. The floor dimensions are 90" x 55". For a low profile tent, the **MOUNTAIN**'s exceptionally spacious 34.37 sq. ft. is considerably larger than the average two-person high altitude tent. There's plenty of room for two plus gear. When the side pull-outs are extended, the lower walls become vertical, creating additional space. Even more useful space is created by the curved *Arc Effect*, which allows unrestricted head movement near the front of the tent. The result is a taut and wrinkle-free tent with minimal interior air circulation. In fact, with the low end facing directly into the gale, the **MOUNTAIN TENT** has performed effectively in 110 MPH winds on California's Mt. Shasta.

The entrance is a zippered triangular storm door backed by an insect screen of the same shape. The outer door is made of 2.5 oz. Super Coated nylon taffeta and the insect mesh is a special nylon knit with bounce-back, multi-stretch properties. Both doors feature #7 Ziplon coil zippers. The three-sectional, tubular aluminum poles are shock-corded and slip into long nylon sleeves. At the rear of the tent, a triangular window with a nylon insect screen and zippered storm flap is neatly double stitched into the back panel.

If more room is desired or extended winter mountaineering, ski-touring, and/or snow camping is planned, our optional **SNOW MODULE** may be zipped onto the entrance. The **MODULE** is joined to the tent by a 142", separating #5 Vislon zipper with coated weather flaps. The trapezoid-shaped **MODULE** adds 3 1/2 ft. to the length of the tent, making the expanded version 11.16 ft. long. The **MODULE** features a tunnel entrance, tunnel vent, and zippered cookhole. When attached, the storm and insect doors may be unzipped, folded, and tied down to make the **MODULE** an integral part of the tent.

Other features include an inside storage pouch, our unique, fitted rain fly, snaps for attaching an optional **FROSTLINE**, and stress reinforcement procedures which are meant to last the life of the tent. It is, with-

out question, one of the finest mountaineering tents in the world.

SPECIFICATIONS

Tent Weight: 2 lbs. 12 oz.

Fly Weight: 1 lb. 4 oz.

Pole Weight: 1 lb. 5 oz.

Total Weight: 5 lbs., 6 oz. (Includes Fly, Poles, and Pegs)

Front Height: 44"

Rear Height: 36"

Optional Module: 1 lb. 12 oz.

Optional Frostliner: 1 lb. 2 oz.

under conditions of prolonged confinement. Although designed to accommodate two persons in comfort, the **TRIPLEX** easily sleeps three when necessary. Its rectangular dimensions, 94" x 60", yield an extremely generous 39.16 sq. ft. of floor space. When the side pullouts are taut, the lower walls become vertical, creating an additional volume of useful space. The curved *Arc Effect* allows for ample head movement. Extremely high wind resistance is achieved through the proven resilience of its double A-Frame construction, the superior air flow characteristics of its overhead *Arc Effect*, its catenary-cut patterns, and its equal-tension side pullouts. In another departure from traditional tent design, the basic **TRIPLEX** is equipped with identical zippered entrances at each end. Both entrances have two triangle-shaped zippered storm and insect doors. The former is made of 2.5 oz. Super Coated nylon taffeta and the latter of 1.1 oz. nylon knit. Both feature #7 Ziplon coil zippers. This identical door system means that, two *equally usable*, quick access entrances are available in a mountaineering tent for year-round use instead of one. If extended winter activity is planned or more interior room is desired, our revolutionary optional **SNOW MODULE** may be zipped onto either door. Any **TRIPLEX MODULE** will join to any basic **TRIPLEX TENT** via 156" separating #5 Vision zipper with weather flaps. The trapezoid-shaped **MODULE** adds 3 3/4 ft. to the length of the tent and features a tunnel door, overhead tunnel vent, and a zippered cookhole. When attached, the storm and insect doors of the basic tent may be unzipped, folded, and tied down, making the **MODULE** an integral part of the tent. Although the basic **TRIPLEX** is larger than most tents with vestibules, the **TRIPLEX plus MODULE** is an all-weather survival shelter large enough to accommodate a two-person expedition with gear. If extended sub-zero use is anticipated, an optional **FROSTLINER** is available. For further expansion, two **MODULES** may be zipped onto the basic tent, one at each end, forming an incredible 15 ft. long, four-person tent. This modular expansion capability makes the **TRIPLEX** the most versatile mountaineering tent available.

Other features include two inside storage pouches, storm flaps to protect the entrance zippers, our unique fitted rain fly, snaps for attaching the optional **FROSTLINER**, and stress reinforcement procedures which are meant to last the life of the tent. Add these to the innovative construction methods mentioned above and the result is a durable, super-functional shelter. We invite comparison.

SPECIFICATIONS

Tent Weight: 3 lbs. 10 oz.

Fly Weight: 1 lb. 9 oz.

Pole Weight: 1 lb. 8 oz.

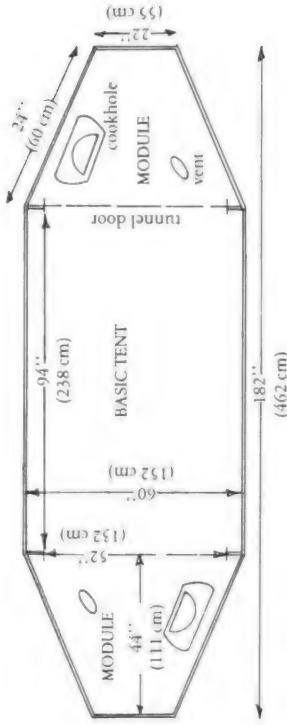
Total Weight: 6 lbs. 14 oz. (Includes Fly, Poles, and Pegs)

End Height: 45"

Center Height: 40"

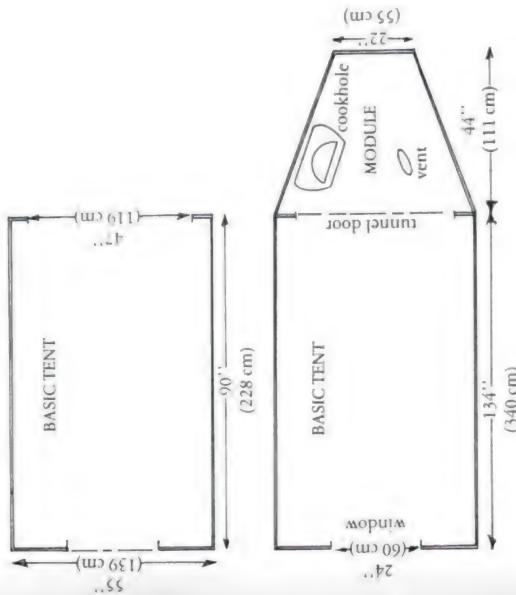
Optional Module: 1 lb. 14 oz.

Optional Frostliner: 1 lb. 4 oz.



MODULES

Our optional **MODULE** is a self-contained chamber which may be zipped onto the entrance of a **TRIPLEX** or **MOUNTAIN TENT** to form an integral extension with a tunnel door, cookhole and tunnel vent. The **MODULE** transforms the basic tent into a practical and highly versatile shelter system; it can be used on summer trips when added space is desired; it is a tremendous convenience for extended winter use. The **MODULE** is extremely easy to attach and set up; only two additional pegs are required. When attached, the **MODULE** forms a 44" long trapezoidal compartment with waterproof taffeta floors and sidewalls and a breathable ripstop top. The breathable portion is designed so that the regular tent fly protects it from snow or rain. Once the **MODULE** is attached, the storm and mesh doors to the basic tent may be unzipped, folded, and tied down. Full use of the **MODULE**'s 44" length is achieved by the construction of an A-Frame pole arrangement at the small end of the compartment. This not only increases the functional space, but increases the overall stability of the tent-module system. Other features include an adjustable tunnel vent with a mesh screen and a crescent-shaped, zippered cookhole. Each Snow Lion tent is equipped with the zipper facing to accept the appropriate **MODULE**. Stuff sack included.

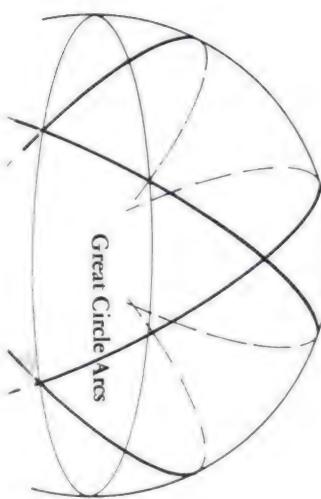


The **TRIPLEX** advances the state of the art in the manufacture of A-Frame tents to the limits of designing technology: complete seasonal flexibility based on the expansion-module concept. The **TRIPLEX** system begins with the basic tent and can be variably enlarged by attaching one or two **SNOW MODULES**. The basic **TRIPLEX** is the most practical four season tent on the mountaineering scene. Its performance characteristics are outstanding; it is built to withstand high winds, to survive the stresses of heavy snowfall, and to provide an uncommon degree of space and livability.

GEODESICS: MERIDIAN AND MERIDIAN EXPEDITION

Geodesics are highly sophisticated structural systems with strength to weight ratios which not only surpass all other structural systems, but also their own predicted strengths. Buckminster Fuller calls this "synergy." Put simply, a synergetic system is one whose strength is not predicted by the sum of its parts.

The term geodesic refers to great circle arcs, or the largest circle which can be inscribed on a given sphere. Oddly enough, the shortest distance between two points on a sphere is a segment of a great circle arc. Most importantly, great circle arcs or geodesic lines are also the shortest, most efficient paths for forces such as push (compression) or pull (tension) to follow.



Now, take these geodesic lines (the most efficient paths for forces) and arrange them around a sphere in such a manner that they intersect to form a triangular grid (the most efficient geometric structural units are triangles). The result is a system which is not only incredibly strong and light, but "synergetically" strong and light. The parts of the system work together so well that the result is stronger and lighter than would have been predicted by the sum of its parts.

Geodesics are not new: Buckminster Fuller first patented geodesic structures in 1954. By this late date, geodesic structures of myriad sizes and shapes have been tried and tested. What is new and unique, though, is that we are just now making the first *true* geodesic backpacking/mountaineering tent available to the public. The new Snow Lion **MERIDIANS** are exactly half spheres with each of the six poles following a true geodesic arc for the most efficient strength to weight ratio possible in a 3-4 man backpacking/mountaineering tent.

Every element of the Snow Lion geodesics has been painstakingly designed with the input of numerous structural engineers, aluminum alloy specialists, and a careful testing and evaluation program which included extended trials inside the Arctic Circle and in the mountain ranges of Alaska.

The most obvious characteristic of the Snow Lion geodesics is that they are incredibly smooth and taut. After returning from the 1977 Cathedral Spires Expedition, Michael Gruber wrote that our **MERIDIAN EXPEDITION** "proved to be a valuable item during the 36 days that it was pitched on Alaskan glaciers . . . We all agreed that it was the tightest tent any of us had used and it held up in wind like a mountain while only two corners were staked down."

Another unique feature is the introduction of the first *cable bordered* fly sheet ever to be applied to a backpacking/mountaineering tent. The *cable border* concept has long been applied to large scale projects by architects like Frei Otto. Instead of simply attaching guys at various points on the edge of a membrane, which results in a very high local strains, a cable is led through a sleeve along a curved border and then pulled taut. This distributes the tension all along the border of the flysheet and results in a uniformly tight flysheet without high stress points. Add to all this combinations of large zippered entrances, arc-shaped windows, vents, tunnel cookholes, storage pouches, snow flaps, hanging loops, giant tunnel doors, abundant, usable space, etc., and the finest 3-4 person tents in the world materialize. The **MERIDIANS**: available to the public on March 1, 1978.

SPECIFICATIONS: MERIDIAN

Width: 105" (267 cm)

Height: 51" (130 cm)

Pole Weight: 2 lbs. 10 oz.

Tent Weight: 5 lbs.

Fly Weight: 2 lbs.

Stuff Sack, Peg Weight: 8 oz.

Total Weight: 10 lbs. 2 oz.

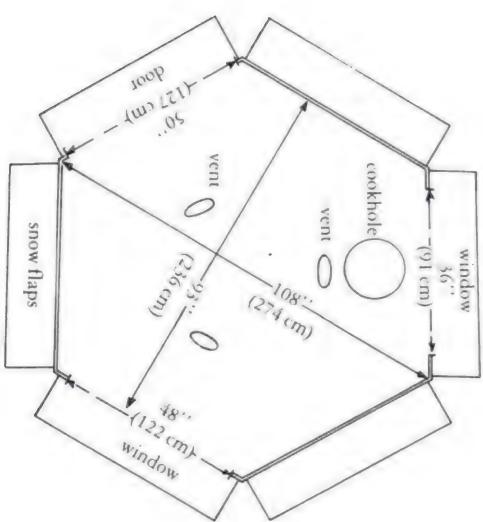
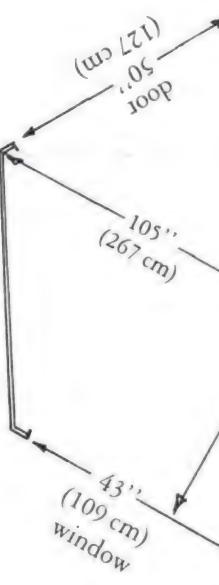
Meridian Expedition

Meridian

(43" (109 cm) window)

(23 1/4" (59 cm) window)

(23 1/4" (59 cm) window)



SNOW LION TENTS; MATERIALS AND WORKMANSHIP

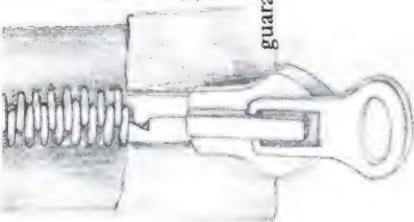
FABRICS

Only the finest quality lightweight fabrics are selected for use on Snow Lion tents. All nylon materials cut for floors, canopies, and flys are specially finished to meet C.P.A.I. standards for fire retardancy. Recent developments in the nylon finishing industry enable nylon fabrics to be made fire retardant without significantly increasing the net weight.

1.9 oz. RIPSTOP NYLON. This air-permeable fabric is used on the canopy of each tent and the upper portion of the MODULES; it is treated with a DWR (durable water repellent) finish, which allows water vapor to pass through; its firm finish and closely woven construction give it a *structural integrity* which easily accepts and releases the stress and tension of pullouts and guylines.

2.5 oz. SUPER COATED TAFFETA. This coated nylon has excellent hydrostatic resistance for maximum waterproofness. Its heavier weight and finish make it less susceptible to tears and punctures. For that reason, it is used on all floors, doors, and tunnels.

1.8 oz. LITE-KOTE TAFFETA. This fine nylon fabric is made specially for us as rain fly material. It features a light waterproof finish and an exceptionally high tear strength.



Under certain conditions at temperatures below -20°F, frozen cotton fibers in the tape may cause stiffening and buckling. If this hampers zipper operation, run the slider back and forth at the problem point until it slides freely. We have confidence in both the Ziplon and Vislon zippers and guarantee them for the life of the tent.

POLES: MERIDIAN AND MERIDIAN EXPEDITION

Our geodesics feature high strength, shock-corded poles manufactured exclusively for us by one of the finest makers of lightweight aluminum tubing in the world. The tolerances on these poles are held to within one ten thousandth of an inch. In perfecting them, we were determined to overcome the breakage problems confronting other manufacturers using curved poles of aluminum alloy. The solution came after months of experimentation. By balancing many factors, including the hardness of the aluminum, the tube diameter and the wall thickness, we developed an incredibly light and durable pole set. Because of the time spent in finding the precise combination of engineering factors, we prefer to keep the hard data confidential. Let it suffice that the results are unparalleled in the mountaineering industry.

POLES: MOUNTAIN AND TRIPLEX

Each A-Frame pole is made of drawn seamless tubular aluminum with a tensile strength of approximately 40,000 P.S.I. All end fittings are screw machined from solid aluminum bar. Absolutely no plastic parts are used. The unique top fitting is an aluminum ogive held in place by a spring-loaded steel pin; this design is by far the most efficient and durable peak connection we have seen. Each pole assembly is made of three sections which are shock cord loaded to eliminate the possibility of lost parts and to insure quick assembly and proper sequential arrangement. The shock cord is held in place by threaded aluminum fittings. We consider these to be the finest A-Frame tent poles available anywhere.

We guarantee them for the life of the tent.

ZIPPERS

The entrance to all Snow Lion tents as well as the MOUNTAIN TENT's rear window flaps feature closed-end, #7 Ziplon coils. These are exceptionally smooth sliding zippers which have performed effectively at -37°F. The self-repairing coils are made of 100% polyester. To connect the MOUNTAIN and TRIPLEX TENTS to the MODULES, we have selected a #5 Vislon separating zipper. Vislon zippers are made of injection molded plastic and have established an impressive, trouble-free performance record over the past three years. When plastic, rather than metal sliders are used, this zipper has operated effectively at -40°F.

a man or woman qualifies for our tent production facility. The fruits of this rigorous attention to quality are seams which are neatly lap folded and double or triple stitched. Fabric edges are neatly finished or seam capped, and stitch lines of high-strength thread are unbroken throughout. On top of all this, every Snow Lion tent undergoes four complete inspections during construction. Thus, it is with confidence that we guarantee the workmanship for the life of each tent.



WORKMANSHIP

In the five years of our existence, we have earned a reputation for sewing excellence equalled by none. By spending nearly twice as much time as our competitors on tent construction, it follows that we are able to put together more complicated and more functional designs as well as take more care in monitoring sewing efficiency. To protect the quality and decrease the chance of careless mistakes, all Snow Lion sewing machine operators involved in tent production are paid high hourly wages—not speed-motivating piece-rates. In addition, an extremely high needle skill is required before



It has been our intention in the design and development of our 1978 products to use the most technically functional and comfortable fabrics available anywhere. In so doing, we have introduced materials never before used in the mountaineering/backpacking industry. For example, our 14 oz. blend of 85% virgin wool/15% nylon, 8 oz. 100% cotton Stormfibre, and two-ply 65%

polyester/35% cotton, are woven exclusively for us. Other advanced fabrics such as cotton-soft Trinyl and 50 denier Nylsilk have never been so widely applied. In addition, our purchasing department insists that rip-stop and taffeta nylons meet exacting quality tests before they grace our cutting tables. In short, we are dead serious about the quality of fabrics which make up our products. We invite comparison.

PRODUCT TESTING

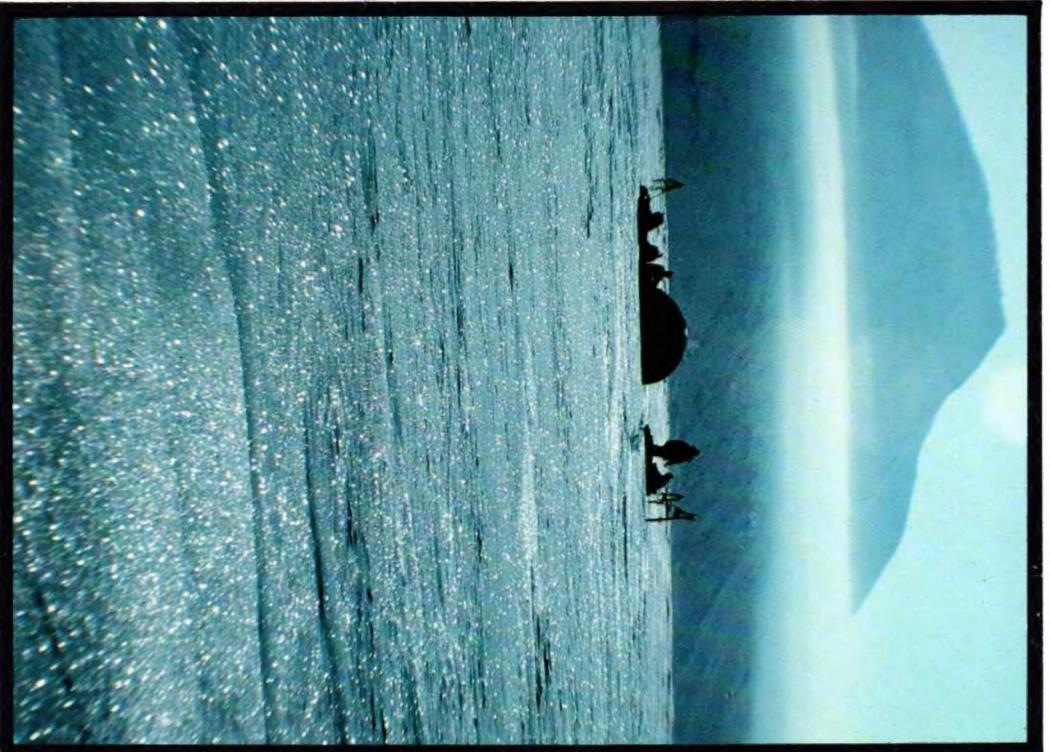


Product testing under a wide variety of conditions is a vital part of our research and development program. In addition to continuous testing in the Sierra Nevada, we have maintained a series of high altitude performance evaluations on expeditions world wide. It is our conviction that equipment use by experienced individuals in isolated and limited access areas under extreme and variable conditions provides the most significant index of product performance. For that reason, we have

formed a testing nucleus around some of America's most respected climbing and expedition figures, John Bragg, Jim Donini, Jim Erickson, Ned Gillette and Steve Wunsch. It is the refinements and design improvements gained by their evaluations and reports from expedition members which make product testing an essential part of our effort to perfect the sleeping bags, parkas and tents which we manufacture.

EXPEDITIONS 1975-1977

1975 Thin Air Expedition, Winter Attempt on Mt. Foraker
1975 American Karakorum /Lobsang Expedition
1975 Foraker South Face Expedition
1975 Baffin Island Expedition
1975 Saint Elias Traverse Expedition
1975 Kitchatna Spires Expedition
1975 Back River Expedition
1975 Alpamayo Expedition
1975 Silverthrone Tri-Pyramid Traverse Expedition
1975 Cathedral Spires (Alaska) Expedition
1975 St. Elias West Face Expedition
1975/76 American Torre Egger Expedition
1975/76 Canadian-British Patagonian Expedition
1976 Denali Winter Expedition
1976 Franco-American Expedition to Mt. Foraker
1976 Lenin Peak Pamirs Expedition
1976 Expedition to Aconcagua-Polish Route
1976 Mt. Foraker-Mt. Russell Expedition
1976 Juneau Ice-Fields Expedition
1976 Anglo-Canadian McKinley Expedition
1976 Mt. Blackburn Expedition
1976 Cathedral Spires (Alaska) Expedition
1976 Mt. McKinley Hang Gliding Expedition
1976 Mt. Logan High Altitude Physiology Study
1976 Nun Kun Expedition



1976 South Buttress Denali Traverse
1976 Indian-American Nanda Devi Expedition
1976 Gates of the Arctic Ski Traverse
1976 Denali Women's Expedition
1976 Andean Expedition
1976 Kitchatna Spires Expedition
1976 Mt. Burkett North Buttress
1976 Mt. Hayes Expedition
1976 WUS Bicentennial Denali Expedition
1977 American Cerro Torre Expedition
1977 Robson: Emperor Face Winter
1977 American Mt. Lucania Expedition
1977 Peak Deo Tibba Expedition
1977 High Arctic Expedition (Ellesmere Island)
1977 Women's Khumbu Glacier Expedition
1977 Fitzroy Expedition
1977 Mt. Blackburn Expedition
1977 Canadian Mtn. Lucania Expedition
1977 Nanga Parbat Expedition
1977 Mt. Logan High Altitude Physiology Study
1977 Mt. Hunter South Face Expedition
1977 German/Mt. Foraker Expedition
1977 Baffin Narwahl Expedition
1977 Cathedral Spires (Alaska) Expedition
1977 First Ascent of Great Trango Tower
1977 Nun Kun Expedition

EXCERPTS FROM EXPEDITIONS' LETTERS TO SNOW LION

MICHAEL GRABER 1975 KITCHATNA SPIRES EXPEDITION

"As far as the equipment was concerned, we couldn't have climbed what we did without the Polarguard. On each climb we were wet, yet we stayed warm . . . At one point we would have died had it not been for the Polarguard. No joke, it was that close."

CRAIG PATTERSON 1975 SAINT ELIAS TRAVERSE EXPEDITION

"I had been on two other mountaineering expedi-

tions, during both of which my bags started getting chilly after a couple of weeks in winter conditions. This four week St. Elias expedition, with your double bag combination, was the first in which I was warm every night. Never even came close to being cold."

GARY BOCARDE 1975 CATHEDRAL SPIRES (ALASKA) EXPEDITION

"The Polarguard EXPEDITION OVERPARKA was really fantastic, it is so good, that it could be used with a half bag for Big Wall climbing in Alaska in the summer."

MICHAEL COVINGTON 1975 AMERICAN KARAKORUM/LOBSANG EXPEDITION

"Due to an extensive series of circumstances, my wool pants and Snow Lion Polarguard bag were left at another camp and when a decision to attempt an alpine ascent at 20,400 ft. Lobsang Peak had been reached, I was left with a pair of shorts, wind pants, and my Polarguard parka and pants to sleep in." By 2 a.m. the morning after reaching the summit, "The Karakorum had become enveloped in a raging blizzard . . . Despite my lack of sufficient undergarments, my Polarguard parka and pants allowed me to sleep warm and comfortably the entire night."

SANDY MAPES

SILVER THRONE TRI-PYRAMID TRAVERSE EXPEDITION, 1975

"The down-Polarguard combination (LIMITED EDITION and OVERBAG) is fantastic. Sublimation is the ticket here; it works . . . The wicking action of moisture from the internal shell was so good that I also put my damp wool pants underfoot, sweater on top, inner boots and gloves and hats along the sides—all between the two bags. The result left me an extremely comfortable sleeping compartment."

DAVE HARRISON BACK RIVER EXPEDITION, 1975

"The (Polarguard) bags were used to save two lives when two of our party overturned in the rapids, and after prolonged exposure to 48 degree water had to be put into sleeping bags to bring their temperatures back up."

STEVE ROSS 1976 DENALI WINTER EXPEDITION

"We encountered day time temperatures that seldom went to zero and a low night time temperature of -40°F. Many nights we had a lot of spindrift in the tents covering the bags—a couple of times it was a foot deep. Between cooking, spindrift and crawling into the bags with snowy and icy clothes, the bags got a real workout . . . We were pleased with the Polarguard bags (MOUNTAIN LION SUPERS) for warmth and can heartily recommend them."

GEORGE HOMER CANADIAN-BRITISH PATAGONIAN EXPEDITION, 1976

"Your gear proved to be excellent. We found it to be much superior to down gear as it was frequently damp or wet due to the exceptionally inclement weather we experienced. Polarguard is obviously where it's at!"

DAVE DENNING 1976 McKNLEY/MULDROW GLACIER EXPEDITION

"During our ascent, we happened upon the victims of a very unfortunate fall at the 16,000 ft. level. Of the four climbers in the fall, two were dead and the other two were in rough condition, having spent the night out, stranded, in subfreezing weather. We were able to carry out a rescue of both survivors . . . We believe that three factors saved these two men. First, they possessed an incredible will; second, they were both wearing Helly-Hansen nylon-pile undergarments; third, they had Snow Lion Polarguard equipment including expedition POLARGUARD PANTS. I can think of no stronger testimonial to Snow Lion Polarguard equipment than having saved these lives. We all were impressed with our own Snow Lion equipment, but the accident and its results have made us all determined to have Snow Lion pants and bags on all our future expeditions."

NED GILLETTE 1977 HIGH ARCTIC EXPEDITION, ELLESMORE ISLAND

"Your Polarguard bags and clothing were excellent. The double bag system was so warm that, although temperature averaged well below zero, we normally slept in single bags . . . Without the steady performance of the MERIDIAN, we wouldn't have completed our expedition . . . It is one of the tightest structures I have ever slept in."

JOHN BRAGG 1977 AMERICAN CERRO TORRE EXPEDITION

"The Snow Lion gear was fantastic again . . . After spending considerable time in Patagonia, I am thoroughly convinced that Polarguard is the only way to go on high altitude snow and ice."

SNOW LION
P.O. BOX 9056
BERKELEY, CALIF. 94701



Berkeley, California

LIFETIME GUARANTEE

Every Snow Lion product is guaranteed against defects in materials and workmanship for as long as it is used by the original purchaser. Claims will be processed directly through Snow Lion; there is no need to contact the dealer from whom the product was purchased. See product warranty tags for complete text and provisions.